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158788

June 9, 2009

Mr. Nick Magriples, On-Scene Coordinator
U.S. Environmental Protection Agency
2890 Woodbridge Avenue,
Edison, NJ 08837

Document Control No.: RST 2-02-F-0981

Subject: **Summary Letter Report**
Work Assignment No.: 20401.032.011.2206, Raritan Bay Slag Site
Contract No.: EP-W-06-072; Task Order No.: 0011-00

Dear Mr. Magriples:

Weston Solutions, Inc. (WESTON®) is pleased to submit the final Summary Letter Report for the second phase of the Raritan Bay Slag site (CERCLIS ID No. NJN000206276) investigation located in Old Bridge and Sayreville, New Jersey. WESTON has revised the report in accordance with your comments dated June 4, 2009. If you have any questions, please contact me at (732) 417-5869.

Very truly yours,

WESTON SOLUTIONS, INC.

Daniel J. Gaughan
Project Manager

enclosure

cc: W.S. Butterfield, WESTON (w/o enclosure)
C. Kelley, WESTON
D. Munhall, EPA
file

SUMMARY LETTER REPORT PHASE II
RARITAN BAY SLAG
OLD BRIDGE AND SAYREVILLE, NEW JERSEY

CERCLIS ID No.: NJN000206276

EPA Contract No.: EP-W-06-072
Task Order No.: 0011-00
W.O. No.: 20401.032.011.2206
Document Control No.: RST 2-02-F-0981

June 2009

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Prepared by:

Weston Solutions, Inc.
Edison, New Jersey 08837

SUMMARY LETTER REPORT PHASE II
RARITAN BAY SLAG
OLD BRIDGE AND SAYREVILLE, NEW JERSEY

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June 2009

SUBMITTED BY:

Daniel J. Gaughan
Project Manager

6/9/09
Date

for W. Scott Butterfield, CHMM
Program Manager

6/9/09
Date

Introduction

In September 2008, the United States Environmental Protection Agency (EPA) tasked Weston Solutions, Inc. (WESTON®) with an Integrated Assessment (IA) evaluation (with sampling) of the Raritan Bay Slag site ("the Site") (CERCLIS ID No. NJN000206276) in Old Bridge and Sayreville, New Jersey, to determine whether further action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) was needed. Based on the results of that first phase of the IA, EPA determined certain areas required further investigation to determine the health risks to the public. Therefore, the second phase of the IA was conducted from April 20 to 23, 2009. During Phase II, WESTON personnel collected additional surface and near surface soil, sediment, and surface water samples from the Site. This Summary Letter Report provides a description of the Site, the April 2009 sampling event, and the sample analytical results.

Site Location

The Site is situated in a residential area on Raritan Bay in New Jersey and is bordered to the south, east, and west by residential properties and State Highway 35, and to the north by Raritan Bay. The site consists of a portion of Old Bridge Waterfront Park, the Cheesequake Creek Inlet, and Margaret's Creek and its associated sensitive environments, covering an approximate distance of 1.5 miles. The geographic coordinates of the approximate midpoint of the site are 40° 27' 30.0" North latitude and 74° 14' 45.0" West longitude. A Sample Location Map is presented in Appendix A, Figure 1.

Site Description

The Site is approximately 1.5 miles in length and consists of the waterfront area from just beyond the western jetty at the Cheesequake Creek Inlet to Margaret's Creek. The Site also includes wetland areas connected to Margaret's Creek. For the second round of sampling at the Site, the area east of Margaret's Creek to the Middlesex County pumping station was included in the sampled area. The portion of the Site located in Old Bridge is within the Laurence Harbor section and contains Old Bridge Waterfront Park. The park is made up of walking paths, a playground area, several public beaches, and three jetties, not including the jetties at the Cheesequake Creek Inlet. The park waterfront is protected by a seawall, which is partially constructed with pieces of slag while the western jetty at the Cheesequake Creek Inlet, and the adjoining waterfront area west of the jetty, contains slag as well. The slag was placed at the Site approximately 40 years ago. The seawall, jetties, and beach area east of the Cheesequake Creek Inlet, and the western jetty at the Cheesequake Creek Inlet are popular fishing areas. The beaches east of the Cheesequake Creek Inlet and west of the seawall appear to be the most popular for swimming.

The Margaret's Creek portion of the site was proposed to be purchased by the State of New Jersey Green Acres Program in 2006. During the preliminary assessment phase of the Green Acres review process, historical aerial photos revealed the filling of the site with an unknown material. On May 23 and July 24, 2007, the New Jersey Department of Environmental Protection (NJDEP) conducted surface soil sampling events along the southern shoreline of the Raritan Bay adjacent to the Old Bridge Waterfront Park. Analytical results from these sampling events indicated the presence of lead at concentrations as high as 142,000 milligrams per kilogram (mg/kg). NJDEP described the

waste material associated with the seawall as consisting of refractory brick and large pieces of rust-colored slag. The slag was described as "low-yield metallic waste from blast furnace and blast furnace rubble" including finer grained "nuggets", as well as automobile battery casing fragments of various sizes. The NJDEP report stated that it is possible that some of the finer waste materials comprising the seawall may have been included in the soil samples.

On April 24, 2008, EPA received a request from the NJDEP to evaluate the Laurence Harbor Seawall for CERCLA Removal Action consideration. On November 3, 2008, EPA received an amended request from the NJDEP to include the northern jetty (herein referred to as the western jetty) at the Cheesequake Creek Inlet in the overall scope.

Existing Analytical Data

On May 23, 2007, the NJDEP conducted a limited sampling event at the intersection of Margaret's Creek and Raritan Bay, along the seawall at the Old Bridge Waterfront Park, on the first two beaches located west of the seawall, and within the grassed portion of the park. The NJDEP collected a total of 37 surface soil samples for metals analysis only. Analysis indicated concentrations of lead that ranged from 8.1 mg/kg to 142,000 mg/kg; antimony (1.5 J [estimated] mg/kg to 12,900 mg/kg), arsenic (6.1 J mg/kg to 3,350 J mg/kg), and copper (16.6 J mg/kg to 709 J mg/kg) were also detected.

The NJDEP conducted a second sampling event on July 24, 2007 from the same general locations. NJDEP collected a total of 34 surface soil samples for metals analysis only. Analytical results indicated concentrations of lead that ranged from 3.1 J mg/kg to 545 J mg/kg; antimony (0.42 J mg/kg to 20.2 J mg/kg), arsenic (1.3 mg/kg to 24.5 mg/kg), and copper (1 J mg/kg to 39.7 mg/kg) were also detected.

From September 10 through 16, 2008, WESTON personnel collected a total of 105 surface soil samples, 84 sediment samples, and 48 surface water samples from Margaret's Creek to just west of the western jetty at Cheesequake Creek Inlet. Analytical results of the soil samples indicated concentrations of lead ranging from 8.9 J mg/kg to 198,000 mg/kg, with the highest values located near areas where slag was observed to be located. Antimony (3,270 mg/kg), arsenic (2,470 J mg/kg), and copper (4,630 mg/kg) were also detected at higher concentrations in samples collected near areas of observed slag.

Integrated Assessment (IA) Sampling Program Phase II

From April 20 through 23, 2009, WESTON personnel collected additional soil, sediment, and surface water samples from the Site. A total of 134 surface and near-surface soil samples (including eight environmental duplicate samples), 116 sediment samples (including five environmental duplicate samples), and 34 surface water samples (including two environmental duplicate samples) were collected from the site and a nearby background location.

The soil, sediment, and surface water samples were collected from areas between the eastern jetty of the Cheesequake Creek Inlet and the third jetty, between the third jetty and the second jetty, between the second jetty and the first jetty, and east of Margaret's Creek between the creek and the

Middlesex County pumping station. Six additional sediment samples were collected approximately 0.5 mile east of Margaret's Creek as background samples. All samples were analyzed for Target Analyte List (TAL) metals (excluding mercury) through the EPA Contract Laboratory Program (CLP). Site Figures and the Sampling Trip Report are presented in Appendices A and B, respectively.

Sample Analytical Results

Lead, arsenic, and copper were detected in all 10 surface soil samples collected from the beach area between the eastern jetty of the Cheesequake Creek Inlet and the third jetty. Concentrations of lead ranged from 2.1 mg/kg to 18.5 mg/kg. Concentrations of arsenic ranged from 2 mg/kg to 4.7 mg/kg. Concentrations of copper ranged from 0.86 J mg/kg to 37.2 mg/kg. Antimony was not detected in any of the surface soil samples. Additional samples were collected from three near-surface soil locations in this area. Concentrations of lead ranged from 2.1 mg/kg to 25.5 mg/kg. Concentrations of arsenic ranged from 1.4 J mg/kg to 12.1 J mg/kg. Concentrations of copper ranged from 1.1 J mg/kg to 7.1 J mg/kg. Concentrations of antimony ranged from non-detect to 0.96 J mg/kg. Concentrations of the contaminants of concern were generally consistent throughout the different depths collected.

Lead, arsenic, and copper were detected in all 36 surface soil samples collected from the beach area between the third jetty and the second jetty. Concentrations of lead ranged from 1.7 mg/kg to 199 mg/kg. Concentrations of arsenic ranged from 1.6 mg/kg to 16.5 mg/kg. Concentrations of copper ranged from 1 J mg/kg to 13.6 mg/kg. Antimony was detected in 3 samples: concentrations ranged from non-detect to 1.3 J mg/kg. In addition, samples were collected from three locations at the same depths as previously discussed. Concentrations of lead ranged from 16.5 J mg/kg to 47.5 J mg/kg. Concentrations of arsenic ranged from 2.8 mg/kg to 25.7 mg/kg. Concentrations of copper ranged from 4 J mg/kg to 17.8 J mg/kg. Concentrations of antimony ranged from non-detect to 1.2 J mg/kg.

All 15 surface soil samples collected from the beach area between the second jetty and the first jetty indicated the presence of lead, arsenic, antimony, and copper. Concentrations of lead ranged from 10.1 mg/kg to 771 mg/kg. Concentrations of arsenic ranged from 1.5 J mg/kg to 43.8 J mg/kg. Concentrations of antimony ranged from non-detect to 53.9 J mg/kg. Concentrations of copper ranged from 2.3 J mg/kg to 58.9 J mg/kg. Additional samples were collected from one near-surface soil location at depths of 0 to 2 inches, 6 to 12 inches, 12 to 18 inches, and 18 to 24 inches. Analytical results indicated the presence of lead, arsenic, copper, and antimony; however, the maximum concentrations of each parameter were located in the 0-2 inch interval of the sample with the concentrations generally decreasing with depth. The concentrations for lead, arsenic, copper and antimony in the subsurface sample ranged from 5.1 mg/kg to 364 J mg/kg, 4.7 mg/kg to 13.9 mg/kg, 2.5 J mg/kg to 18.7 mg/kg, and non-detect to 15.7 mg/kg, respectively.

Lead, arsenic, and copper were detected in all 42 soil samples collected from the area east of Margaret's Creek between the creek and the Middlesex County pumping station. Antimony was not detected in any of the samples. Concentrations of lead ranged from 1.7 J mg/kg to 28.9 mg/kg. Concentrations of arsenic ranged from 0.69 J mg/kg to 11.4 J mg/kg. Concentrations of copper ranged from 0.46 J mg/kg to 35.8 mg/kg.

Sediment samples collected between the eastern jetty of the Cheesequake Creek Inlet and the third jetty indicated the presence of lead, arsenic, and copper in all 30 samples and antimony in all but one sample. Concentrations of lead ranged from 1.1 mg/kg to 34.6 mg/kg. One concentration of lead was subsequently rejected as unusable during the validation process due to quality control issues. Concentrations of arsenic ranged from 1.3 mg/kg 15.4 mg/kg. Concentrations of copper ranged from 1.3 J mg/kg to 31.3 mg/kg. Concentrations of antimony ranged from non-detect to 7 J mg/kg.

Sediment samples collected in the area between the third jetty and the second jetty indicated the presence of lead, arsenic, and copper in all 23 samples collected. Concentrations of lead ranged from 14.4 J mg/kg to 87.4 J mg/kg. Concentrations of arsenic ranged from 2.2 mg/kg to 13.2 mg/kg. Concentrations of copper ranged from 2.8 mg/kg to 49.3 mg/kg. Antimony was not detected in any of the samples.

Fourteen sediment samples collected from the area between the second jetty and the first jetty indicated the presence of lead, arsenic, copper, and antimony. Concentrations of lead ranged from 44.9 mg/kg to 1,090 mg/kg. Concentrations of arsenic ranged from 5.1 mg/kg to 38 mg/kg. Concentrations of copper ranged from 7.9 mg/kg to 48.3 mg/kg. Concentrations of antimony ranged from non-detect to 47.1 J mg/kg.

Lead, copper, and arsenic were detected in all 42 sediment samples collected from the area east of Margaret's Creek between the creek and the Middlesex County pumping station. Concentrations of lead ranged from 3 mg/kg to 21.6 mg/kg. Three concentrations of lead were subsequently rejected as unusable during the validation process due to quality control issues. Concentrations of arsenic ranged from 0.95 J mg/kg to 19.1 J mg/kg. Concentrations of copper ranged from 1.1 J mg/kg to 27.1 mg/kg. Antimony was not detected in any of the samples.

Six sediment samples collected from the background location ranged in lead concentrations from 2.4 J mg/kg to 7.1 J mg/kg. The maximum concentrations detected for arsenic and copper were 4.2 mg/kg and 5.2 J mg/kg, respectively. Antimony was not detected in any of the samples.

Surface water samples were collected from each area described previously. Two sample fractions were collected from each location and analyzed for total metals and dissolved metals. One sample from each area was collected as a standard surface water sample, while the remaining samples were collected as activity-based samples.

Ten surface water samples were collected from four locations between the eastern jetty of the Cheesequake Creek Inlet and the third jetty. Concentrations of total lead ranged from 10.2 µg/L to 209 µg/L. Concentrations of total arsenic ranged from non-detect to 13.1 µg/L. Concentrations of total copper ranged from 6.3 J µg/L to 46.2 µg/L. Antimony was not detected in total concentrations in this area. Copper was detected in dissolved concentrations ranging from 1.4 J µg/L to 2.1 J µg/L. Lead, arsenic, and antimony were not detected in dissolved concentrations in samples from this area.

Eight surface water samples were collected from the area between the third jetty and the second jetty. Concentrations of total lead ranged from 67.9 µg/L to 519 µg/L. Concentrations of total arsenic ranged from 5.9 J µg/L to 27.9 µg/L. Concentrations of total copper ranged from 8 J µg/L to

49.4 µg/L. Concentrations of antimony ranged from 3.5 J µg/L to 26.2 J µg/L. Arsenic and antimony were not detected in dissolved concentrations; however, lead was detected at a concentration of 3.8 J µg/L in one sample and copper was detected in two samples at concentrations ranging from 1.2 J µg/L to 1.6 J µg/L.

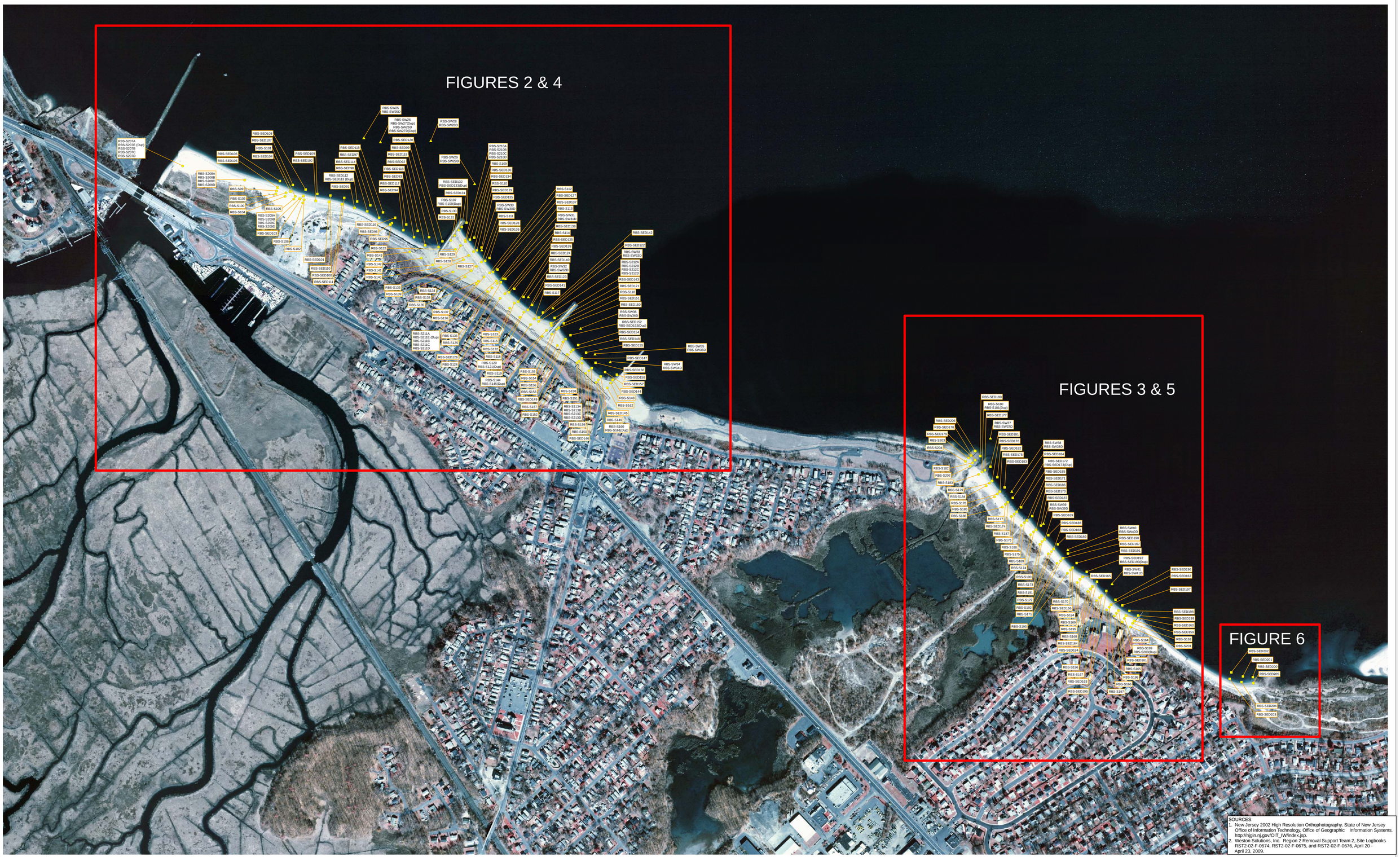
Six surface water samples were collected in the area between the second jetty and the first jetty at three different locations. Two samples were collected at each location, one for analysis of total metals and one for analysis of dissolved metals. The analytical results for the total metals analysis indicate the presence of lead, arsenic, copper and antimony in each sample. Concentrations of lead ranged from 164 micrograms per liter (µg/L) to 767 µg/L. Concentrations of arsenic ranged from 8.7 J µg/L to 20.4 µg/L. Concentrations of copper ranged from 14.4 J µg/L to 45.5 µg/L. Concentrations of antimony ranged from 8.1 J µg/L to 10.6 J µg/L. Arsenic and lead were not detected in the dissolved water samples; however, copper was detected at a concentration of 6.3 J µg/L in one sample and antimony was detected at a concentration of 3.9 J µg/L in another sample.

Ten surface water samples were collected from the area east of Margaret's Creek between the creek and the Middlesex County pumping station. Concentrations of total lead ranged from 5.8 J µg/L to 37 J µg/L. Concentrations of total arsenic ranged from 1.9 µg/L to 7 J µg/L. Concentrations of total copper ranged from 4.8 J µg/L to 11.6 J µg/L. Antimony was not detected in total concentrations in any of the samples. Arsenic and copper were detected in dissolved concentrations ranging from non-detect to 5.4 J µg/L and non-detect to 2 J µg/L, respectively. Neither lead nor antimony were detected in dissolved phase concentrations.

LIST OF APPENDICES

APPENDIX A

FIGURES 1 – 6



Legend

- Soil Sample Location
- Surface Water Sample Location
- Sediment Sample Location

250 0 250 500
Graphic Scale In Feet

N
W E
S

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REPORT DATE: June 2009	PROJECT MANAGER: D. Gaughan	CLIENT NAME: EPA	DRAWING TITLE: Raritan Bay Slag Site Sample Location Map April 2009
DRAWING PATH: D6688_RBS_Key_Map_060509.mxd P:/SAT2/Raritan_Bay_Slag/MXD/0609_Revised_Maps	CHECKED BY: D. Gaughan		
REVISION No. 0	CONTRACT No. EP-W-06-072	PROJECT NAME: Raritan Bay Slag Site	
WORK ORDER No. 20401.032.011.2206	DRAWN/MODIFIED BY: J. Lynes DATE CREATED: 05/14/2009		FIGURE: 1 SCALE: 1" = 250' DATE: 06/10/2009

Legend

0 To 3 Inch Sediment Sample Lead Results

- 0 to 200 mg/kg
- 200 to 400 mg/kg
- 400 to 1000 mg/kg
- 1000 to 5000 mg/kg

0 To 2 Inch Soil Sample Lead Results

- 0 to 200 mg/kg
- 200 to 400 mg/kg
- 400 to 1000 mg/kg

6 To 12 Inch Soil Sample Lead Results

- 0 to 200 mg/kg

12 To 18 Inch Soil Sample Lead Results

- 0 to 200 mg/kg

18 To 24 Inch Soil Sample Lead Results

- 0 to 200 mg/kg

NOTES
1. All soil and sediment sample results are in milligrams per kilogram (mg/kg)
2. J - Estimated concentration
3. R - Unusable value

SOURCES:
1. New Jersey 2002 High Resolution Orthophotography. State of New Jersey Office of Information Technology, Office of Geographic Information Systems. http://nigin.nj.gov/OIT_W/index.jsp.
2. Weston Solutions, Inc. Region 2 Removal Support Team 2, Site Logbooks RST2-02-F-0674, RST2-02-F-0675, and RST2-02-F-0676, April 20 - April 23, 2009.

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N W E S

REPORT DATE: June 2009

DRAWING: PATH: 06690_RBS_Pb_1of2_060509.mxd
P:/SAT2/Raritan_Bay_Slag/MXD/0609_Revised_Maps

REVISION No.: 0

WORK ORDER No.: 20401.032.011.2206

PROJECT MANAGER: D. Gaughan

CHECKED BY: D. Gaughan

CONTRACT No.: EP-W-06-072

DRAWN/MODIFIED BY: J. Lynes

DATE CREATED: 05/14/2009

CLIENT NAME: EPA

PROJECT NAME: Raritan Bay Slag Site

DRAWING TITLE:

Raritan Bay Slag Site
Soil/Sediment Lead Results Map
April 2009
(Western Extent)

FIGURE: 2

SCALE: 1" = 80'

DATE: 06/10/2009

RBS-SED206 (0-3 in)
Lead 90 R

RBS-SED179 (0-3 in)
Lead 12.5

RBS-S203 (0-2 in)
Lead 17.5

RBS-S204 (0-2 in)
Lead 5.9

RBS-S182 (0-2 in)
Lead 7.2

RBS-S202 (0-2 in)
Lead 3.5

RBS-S183 (0-2 in)
Lead 2.7

RBS-S180 (0-2 in)
Lead 3.7 J
RBS-S181 (Dup) (0-2 in)
Lead 4.9 J

RBS-S184 (0-2 in)
Lead 3.1

RBS-S179 (0-2 in)
Lead 5.8 J

RBS-S185 (0-2 in)
Lead 2.8

RBS-S178 (0-2 in)
Lead 3.6 J

RBS-S186 (0-2 in)
Lead 4.8

RBS-S177 (0-2 in)
Lead 4.6 J

RBS-SED178 (0-3 in)
Lead 10.6

RBS-SED180 (0-3 in)
Lead 12.2

RBS-SED177 (0-3 in)
Lead 5

RBS-SED181 (0-3 in)
Lead 5.4

RBS-SED176 (0-3 in)
Lead 9.1

RBS-SED182 (0-3 in)
Lead 10.8

RBS-SED175 (0-3 in)
Lead 7

RBS-SED183 (0-3 in)
Lead 5.6

RBS-SED174 (0-3 in)
Lead 16.3

RBS-SED184 (0-3 in)
Lead 8.6

RBS-SED172 (0-3 in)
Lead 5.6
RBS-SED173 (Dup) (0-3 in)
Lead 17.2

RBS-SED185 (0-3 in)
Lead 16.5

RBS-SED171 (0-3 in)
Lead 4.5

RBS-SED186 (0-3 in)
Lead 4

RBS-SED170 (0-3 in)
Lead 6.2

RBS-SED187 (0-3 in)
Lead 11.9

RBS-SED169 (0-3 in)
Lead 3

RBS-SED188 (0-3 in)
Lead 6.5

RBS-SED168 (0-3 in)
Lead 9.1

RBS-SED189 (0-3 in)
Lead 9.8

RBS-SED167 (0-3 in)
Lead 6.3

RBS-SED190 (0-3 in)
Lead 8.6

RBS-SED166 (0-3 in)
Lead 5.2

RBS-SED191 (0-3 in)
Lead 11

RBS-SED165 (0-3 in)
Lead 7.8

RBS-SED192 (0-3 in)
Lead 18.8
RBS-SED193(Dup) (0-3 in)
Lead 21.6

RBS-SED194 (0-3 in)
Lead 16.8

RBS-SED195 (0-3 in)
Lead 10.3 J

RBS-SED163 (0-3 in)
Lead 3.4

RBS-SED162 (0-3 in)
Lead 14.1

RBS-SED196 (0-3 in)
Lead 9.6

RBS-SED197 (0-3 in)
Lead 10.6

RBS-SED161 (0-3 in)
Lead 6.7

RBS-SED198 (0-3 in)
Lead 18.3 R

RBS-SED160 (0-3 in)
Lead 8.4

RBS-SED199 (0-3 in)
Lead 2.8 R

RBS-SED159 (0-3 in)
Lead 3.5

RBS-S163 (0-2 in)
Lead 1.7 J

RBS-S201 (0-2 in)
Lead 2

RBS-S187 (0-2 in)
Lead 3.8

RBS-S176 (0-2 in)
Lead 2.8 J

RBS-S188 (0-2 in)
Lead 3.6

RBS-S175 (0-2 in)
Lead 5.5 J

RBS-S174 (0-2 in)
Lead 13.2

RBS-S189 (0-2 in)
Lead 4

RBS-S173 (0-2 in)
Lead 3.9 J

RBS-S190 (0-2 in)
Lead 11.8

RBS-S191 (0-2 in)
Lead 4.8

RBS-S172 (0-2 in)
Lead 4.1 J

RBS-S192 (0-2 in)
Lead 28.9

RBS-S171 (0-2 in)
Lead 11.8 J

RBS-S170 (0-2 in)
Lead 5.4 J

RBS-S193 (0-2 in)
Lead 8.9

RBS-S169 (0-2 in)
Lead 3.7 J

RBS-S194 (0-2 in)
Lead 3.6

RBS-S164 (0-2 in)
Lead 3.7

RBS-S168 (0-2 in)
Lead 6.4 J

RBS-S195 (0-2 in)
Lead 5.2

RBS-S196 (0-2 in)
Lead 3

RBS-S167 (0-2 in)
Lead 7.8 J

RBS-S197 (0-2 in)
Lead 2.2

RBS-S166 (0-2 in)
Lead 4.9 J

RBS-S198 (0-2 in)
Lead 2.1

RBS-S165 (0-2 in)
Lead 3.6 J

RBS-S199 (0-2 in)
Lead 2.5
RBS-S200(Dup) (0-2 in)
Lead 2.1

RBS-S164 (0-2 in)
Lead 1.8 J

80 0 80 160
Graphic Scale In Feet

SOURCES:
1. New Jersey 2002 High Resolution Orthophotography. State of New Jersey Office of Information Technology, Office of Geographic Information Systems. http://njgin.nj.gov/OIT_IW/index.jsp.
2. Weston Solutions, Inc. Region 2 Removal Support Team 2, Site Logbooks RST2-02-F-0674, RST2-02-F-0675, and RST2-02-F-0676, April 20 - April 23, 2009.

Legend

0 To 3 Inch Sediment Sample Lead Results

0-200 mg/kg

0 To 2 Inch Soil Sample Lead Results

0 to 200 mg/kg

NOTES
1. All soil and sediment sample results are in milligrams per kilogram (mg/kg)
2. J - Estimated concentration
3. R - Unusable value

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N W E S

REPORT DATE: June 2009

PROJECT MANAGER: D. Gaughan

CLIENT NAME: EPA

DRAWING TITLE: Raritan Bay Slag Site
Soil/Sediment Lead Results Map
April 2009
(Eastern Extent)

DRAWING: PATH: 06691_RBS_Pb_2of2_060509.mxd
P:/SAT2/Raritan_Bay_Slag/MXD/0609_Revised_Maps

CHECKED BY: D. Gaughan

REVISION No. 0

CONTRACT No. EP-W-06-072

PROJECT NAME: Raritan Bay Slag Site

WORK ORDER No. 20401.032.011.2206

DRAWN/MODIFIED BY: J. Lynes
DATE CREATED: 05/14/2009

FIGURE: 3

SCALE: 1" = 80'

DATE: 06/10/2009

N
W E
S

RBS-SW25
Antimony 60 U
Arsenic 3.8 J
Copper 6.3 J
Lead 10.2
RBS-SW25D
Antimony 60 U
Arsenic 10 U
Copper 1.7 J
Lead 10 U

ACTIVITY-BASED SAMPLE
RBS-SW26
Antimony 60 U
Arsenic 13.1
Copper 23.1 J
Lead 109 J
RBS-SW27 (Dup)
Antimony 60 U
Arsenic 10 U
Copper 30.2
Lead 140 J
RBS-SW26D
Antimony 60 U
Arsenic 10 U
Copper 1.4 J
Lead 10 U
RBS-SW27D (Dup)
Antimony 60 U
Arsenic 10 U
Copper 1.6 J
Lead 10 U

ACTIVITY-BASED SAMPLE
RBS-SW28
Antimony 60 U
Arsenic 11.1
Copper 18.1 J
Lead 106
RBS-SW28D
Antimony 60 U
Arsenic 10 U
Copper 1.9 J
Lead 10 U

ACTIVITY-BASED SAMPLE
RBS-SW29
Antimony 60 U
Arsenic 10.6
Copper 46.2
Lead 209
RBS-SW29D
Antimony 60 U
Arsenic 10 U
Copper 2.1 J
Lead 10 U

ACTIVITY-BASED SAMPLE
RBS-SW30
Antimony 3.8 J
Arsenic 5.9 J
Copper 9.2 J
Lead 74.6
RBS-SW30D
Antimony 60 U
Arsenic 10 U
Copper 1.3 J
Lead 10 U

ACTIVITY-BASED SAMPLE
RBS-SW31
Antimony 10.1 J
Arsenic 10.9
Copper 18.6 J
Lead 157
RBS-SW31D
Antimony 60 U
Arsenic 10 U
Copper 1.2 J
Lead 10 U

ACTIVITY-BASED SAMPLE
RBS-SW33
Antimony 26.2 J
Arsenic 27.9
Copper 49.4
Lead 519
RBS-SW33D
Antimony 60 U
Arsenic 10 U
Copper 1.3 J
Lead 10 U

ACTIVITY-BASED SAMPLE
RBS-SW36
Antimony 8.4 J
Arsenic 13
Copper 25 J
Lead 480
RBS-SW36D
Antimony 3.9 J
Arsenic 10 U
Copper 25 U
Lead 10 U

RBS-SW32
Antimony 3.5 J
Arsenic 6.2 J
Copper 8 J
Lead 67.9
RBS-SW32D
Antimony 60 U
Arsenic 10 U
Copper 1.6 J
Lead 3.8 J

ACTIVITY-BASED SAMPLE
RBS-SW35
Antimony 10.6 J
Arsenic 20.4
Copper 45.5
Lead 767
RBS-SW35D
Antimony 60 U
Arsenic 10 U
Copper 6.3 J
Lead 10 U

RBS-SW34
Antimony 8.1 J
Arsenic 8.7 J
Copper 14.4 J
Lead 164
RBS-SW34D
Antimony 60 U
Arsenic 10 U
Copper 25 U
Lead 10 U

Legend

△ Surface Water Sample Location

NOTES
1. All surface water results are in micrograms per liter (ug/l)
2. Surface Water Sample IDs with a "D" at the end represents a dissolved metals sample.
3. J - Estimated concentration
4. U - Analyte not detected

SOURCES
1. New Jersey 2002 High Resolution Orthophotography. State of New Jersey Office of Information Technology, Office of Geographic Information Systems. http://njgin.nj.gov/OIT_IW/index.jsp.
2. Weston Solutions, Inc. Region 2 Removal Support Team 2, Site Logbooks RST2-02-F-0674, RST2-02-F-0675, and RST2-02-F-0676, April 20 - April 23, 2009.

LEGEND:
200 100 0 200
Graphic Scale In Feet

PROJECT:
Raritan Bay Slag Site

CLIENT NAME:
EPA

TITLE:
Raritan Bay Slag Site
Surface Water Results Map (Western Extent)
April 2009

WESTON SOLUTIONS SM

DATE:
06/10/2009

FIGURE #:
4

P:/SAT2/Raritan_Bay_Slag/MXD/0609_Revised_Maps/06693_RBS_SW_1of2_060509.mxd

N
W E
S

ACTIVITY-BASED SAMPLE
RBS-SW37
Antimony 60 U
Arsenic 5.3 J
Copper 8.6 J
Lead 37
RBS-SW37D
Antimony 60 U
Arsenic 10 U
Copper 25 U
Lead 10 U

ACTIVITY-BASED SAMPLE
RBS-SW38
Antimony 60 U
Arsenic 3.2 J
Copper 7.6 J
Lead 15
RBS-SW38D
Antimony 60 U
Arsenic 5.4 J
Copper 0.74 J
Lead 10 U

RBS-SW39
Antimony 60 U
Arsenic 1.9
Copper 6.8 J
Lead 5.8 J
RBS-SW39D
Antimony 60 U
Arsenic 2.2 J
Copper 0.91 J
Lead 10 U

ACTIVITY-BASED SAMPLE
RBS-SW40
Antimony 60 U
Arsenic 6.2 J
Copper 11.6 J
Lead 25.6
RBS-SW40D
Antimony 60 U
Arsenic 2.4 J
Copper 2 J
Lead 10 U

ACTIVITY-BASED SAMPLE
RBS-SW41
Antimony 60 U
Arsenic 7 J
Copper 4.8 J
Lead 28.4
RBS-SW41D
Antimony 60 U
Arsenic 3.3 J
Copper 1.2 J
Lead 10 U

Legend

△ Surface Water Sample Location

NOTES
1. All surface water results are in micrograms per liter (ug/l)
2. Surface Water Sample IDs with a "D" at the end represents a dissolved metals sample.
3. J - Estimated concentration
4. U - Analyte not detected

SOURCES
1. New Jersey 2002 High Resolution Orthophotography. State of New Jersey Office of Information Technology, Office of Geographic Information Systems. http://njgin.nj.gov/OIT_IW/index.jsp.
2. Weston Solutions, Inc. Region 2 Removal Support Team 2, Site Logbooks RST2-02-F-0674, RST2-02-F-0675, and RST2-02-F-0676, April 20 - April 23, 2009.

LEGEND:
200 100 0 200
Graphic Scale In Feet

PROJECT:
Raritan Bay Slag Site

CLIENT NAME:
EPA

TITLE:
Raritan Bay Slag Site
Surface Water Results Map (Eastern Extent)
April 2009

WESTON SOLUTIONS SM

DATE:
06/10/2009

FIGURE #:
5

P:\SAT2\Raritan_Bay_Slag\MXD\0609_Revised_Maps\06694_RBS_SW_2of2_060509.mxd

Legend

0 To 3 Inch Sediment Sample Lead Results

0 to 200 mg/kg

NOTES
1. All soil and sediment sample results are in milligrams per kilogram (mg/kg)
2. J - Estimated concentration

SOURCES
1. New Jersey 2002 High Resolution Orthophotography. State of New Jersey Office of Information Technology, Office of Geographic Information Systems. http://njgin.nj.gov/OIT_IW/index.jsp.
2. Weston Solutions, Inc. Region 2 Removal Support Team 2, Site Logbooks RST2-02-F-0674, RST2-02-F-0675, and RST2-02-F-0676, April 20 - April 23, 2009.

LEGEND:
80 40 0 80
Graphic Scale In Feet

PROJECT: Raritan Bay Slag Site

CLIENT NAME: EPA

TITLE:
Raritan Bay Slag Site
Sediment Lead Results Map Background Locations
April 2009

WESTON SOLUTIONS SM

DATE: 06/10/2009

FIGURE #: 6

P:/SAT2/Raritan_Bay_Slag/MXD/0609_Revised_Maps/06692_RBS_Pb_BKG_060509.mxd

APPENDIX B

SAMPLING TRIP REPORT

Weston Solutions, Inc.
205 Campus Drive
Edison, New Jersey 08837
732-417-5800 • Fax 732-417-5801
www.westonsolutions.com

The Trusted Integrator for Sustainable Solutions

April 28, 2009

Mr. Nick Magriples
U.S. Environmental Protection Agency
2890 Woodbridge Avenue
Edison, NJ 08837

Document Control No.: RST2-02-F-0933

Subject: Sampling Trip Report
Work Assignment No.: 20401.032.011.2206, Raritan Bay Slag Site
Contract No.: EP-W-06-072; Task Order No.: 0011-00

Dear Mr. Magriples:

Weston Solutions, Inc. (WESTON®) is pleased to submit the Sampling Trip Report for the second phase of sampling at the Raritan Bay Slag Site (RBS) (CERCLIS ID No. NJN000206276) located in Old Bridge and Sayreville, New Jersey. If you have any questions, please contact me at (732) 417-5869.

Very truly yours,

WESTON SOLUTIONS, INC.

Daniel J. Gaughan
Project Manager

Enclosure

cc: W.S. Butterfield, SAT 2 (w/o enclosure)
C. Kelley, RST 2 (w/o enclosure)
I. Acosta (w/o enclosure)
J. Feranda, EPA (w/o enclosure)
A. Michael, EPA
site file

SAMPLING TRIP REPORT

SITE NAME: Raritan Bay Slag Site
DCN No.: RST2-02-F-0933
W.O. No.: 20401.032.011.2206
Case No.: 38476

EPA I.D. NO.: NJN000206276

SAMPLING DATES: April 20 through 23, 2009

1. Site Location: Refer to Figure 1

2. Sample Locations: Refer to Figure 2

3. Sample Descriptions: Refer to Table 1

4. Laboratory Receiving Samples:

Analysis	Name and Address of Laboratory
Target Analyte List (TAL) metals	Bonner Analytical Testing Company 2703 Oak Grove Road Hattiesburg, MS 39402
	Liberty Analytical Corporation 501 Madison Avenue Cary, NC 27513

5. Sample Dispatch Data:

One aqueous sample for low concentration TAL metals analysis and 47 soil samples for low concentration TAL metals analysis were shipped to Bonner Analytical Testing Company (Bonner Analytical) on 4/20/2009 at 1415 hours via Federal Express Airbill No. 8627 4314 8293.

Eight aqueous samples for low concentration TAL metals analysis, seven aqueous samples for low concentration dissolved TAL metals analysis, and 59 soil/sediment samples for low concentration TAL metals analysis were shipped to Liberty Analytical on 4/21/2009 at 1640 hours via Federal Express Airbill No. 8627 4314 8308.

Six aqueous samples for low concentration TAL metals analysis, five aqueous samples for low concentration dissolved TAL metals analysis, and 83 soil/sediment samples for low concentration TAL metals analysis were shipped to Bonner Analytical on 4/22/2009 at 1740 hours via Federal Express Airbill No. 8627 4314 8319.

Six aqueous samples for low concentration TAL metals analysis, five aqueous samples for low concentration dissolved TAL metals analysis, and 61 soil/sediment samples for low concentration TAL metals analysis were shipped to Liberty Analytical on 4/23/2009 at 1830 hours via Federal Express Airbill No. 8627 4314 8320.

6. On-Site Personnel:

Name	Company	Duties on Site
Dan Gaughan	WESTON	Project Manager, Site Health and Safety Officer, Sampler
Scott Snyder	WESTON	Sample Management Officer (SMO)
Kelli Lucarino	WESTON	Sampler
Julissa Morales	WESTON	Sampler, Global Positioning System (GPS) Data Collection
Laura Holloway	WESTON	Sampler
Eric Hazard	WESTON	Sampler
Shawna Rigby	EPA	EPA Oversight

7. Additional Comments:

From April 20 through 23, 2009, Weston Solutions, Inc. (WESTON®) personnel collected soil, sediment, and surface water samples from the Raritan Bay Slag Site to determine the priority for further action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). A total of 134 surface and near-surface soil samples (including eight environmental duplicate samples), 116 sediment samples (including five environmental duplicate samples), and 34 surface water samples (including two environmental duplicate samples) were collected from the site and a nearby background location. This sampling event was conducted as a follow-up to the October 2008 sampling event at the site.

WESTON collected surface soil samples from the depth interval of 0 to 2 inches and near-surface soil samples from the depth intervals of 6 to 12 inches, 12 to 18 inches, and 18 to 24 inches. Surface soil samples were collected using a dedicated plastic scoop to scrape away surficial material (grass, leaves, rocks etc.) and to remove the top layer of vegetation/soil/fill material. The soil was collected, transferred into a dedicated plastic tray, homogenized, and transferred into the required sample container using a dedicated plastic scoop. Near-surface soil samples were collected using a steel shovel and dedicated, disposable plastic scoops. Near-surface depths were achieved by shoveling soil from the location of the previously collected 0-to-2 inch sample to the required depth below the surface (i.e., top of the sampling interval). Once the appropriate depth was achieved, a layer of soil was scraped away using a disposable scoop. A second scoop was utilized to collect soil, place it into a dedicated plastic tray, and homogenize it. The homogenized soil was then transferred into the required sample container using the second dedicated plastic scoop. All remaining soil, not used for laboratory analysis, was discarded at the sampling location.

Sediment samples were collected at a depth of 0 to 3 inches. Sediment samples were collected using a dedicated, disposable plastic scoop, allowing any excess surface water to drain from the sampling

device. After collection, the sediment was transferred into a dedicated plastic tray, homogenized, and transferred into the required sample container using the dedicated plastic scoop. All remaining sediment, not used for laboratory analysis, was discarded at the sampling location.

Surface water samples were collected directly into the sample container by partially submerging the sample bottle and collecting the sample. Surface water samples for TAL metals and TAL dissolved metals analysis were co-located, with the sample numbers containing a 'D' indicating requested analysis for dissolved metals (i.e., RBS-SW25 and RBS-SW25D). The dissolved metals sample was collected into a clean container and filtered through a 0.45-micron filter into another clean container using a peristaltic pump and dedicated tubing to avoid cross-contamination, at which point the first container was discarded.

Four rinsate blanks (plastic scoop and plastic tray) were collected for quality assurance/quality control (QA/QC) purposes.

All sample locations were recorded electronically using GPS technology. Post-processing differential correction of the GPS data was conducted in accordance with the EPA Region 2 GPS Standard Operating Procedures (SOP). The processed GPS data were then transferred to the Sample Location Map (Figure 2) using Geographic Information Systems (GIS).

All samples were collected as part of the Integrated Assessment (IA) evaluation conducted on site. Samples collected by WESTON were designated for analysis of TAL metals (soil, sediment, and surface water) and TAL dissolved metals (surface water) through the EPA Contract Laboratory Program (CLP). Inorganic Traffic Reports are presented in Attachment 1.

8. Report Prepared by: Julissa Morales Date: 4/28/09
Julissa Morales

9. Report Approved by: W. S. Butterfield Date: 4/28/09
W. S. Butterfield, CHMM

TABLE 1
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE
OLD BRIDGE AND SAYREVILLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-S99 MS/MSD	MB5JH5	4/20/09	0855	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches. Matrix spike/matrix spike duplicate (MS/MSD) for quality assurance/quality control (QA/QC) purposes.
RBS-S100	MB5JH6	4/20/09	0858	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches.
RBS-S101	MB5JH7	4/20/09	0850	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches.
RBS-S102	MB5JH8	4/20/09	0845	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches.
RBS-S103	MB5JH9	4/20/09	0855	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches.
RBS-S104	MB5JJ0	4/20/09	0851	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches.
RBS-S105	MB5JJ1	4/20/09	0850	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches.
RBS-S106	MB5JJ2	4/20/09	0845	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches.
RBS-S107	MB5JJ3	4/20/09	0940	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches.
RBS-S108	MB5JJ4	4/20/09	0945	Duplicate of sample RBS-S107 for QA/QC purposes.
RBS-S109	MB5JJ5	4/20/09	1001	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S110	MB5JJ6	4/20/09	1011	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S111	MB5JJ7	4/20/09	1022	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S112	MB5JJ8	4/20/09	1040	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S113	MB5JJ9	4/20/09	1037	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S114	MB5JK0	4/20/09	1040	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S115	MB5JK1	4/20/09	1048	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S116	MB5JK2	4/20/09	1050	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S117	MB5JK3	4/20/09	1052	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S118	MB5JK4	4/20/09	1055	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S119 MS/MSD	MB5JK5	4/20/09	1058	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches. MS/MSD for QA/QC purposes.
RBS-S120	MB5JK6	4/20/09	1103	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S121	MB5JK7	4/20/09	1106	Duplicate of sample RBS-S120 for QA/QC purposes.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-S122	MB5JK8	4/20/09	1105	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S123	MB5JK9	4/20/09	1106	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S124	MB5JL0	4/20/09	1110	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S125	MB5JL1	4/20/09	1110	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S126	MB5JL2	4/20/09	1112	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S127	MB5JL3	4/20/09	1124	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S128	MB5JL4	4/20/09	1131	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S129	MB5JL5	4/20/09	1139	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S130	MB5JL6	4/20/09	1146	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S131	MB5JL7	4/20/09	1146	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S132	MB5JL8	4/20/09	1142	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S133	MB5JL9	4/20/09	1136	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S134	MB5JM0	4/20/09	1125	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S135	MB5JM1	4/20/09	1123	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S136	MB5JM2	4/20/09	1115	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S137	MB5JM3	4/20/09	1118	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S138	MB5JM4	4/20/09	1130	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S139 MS/MSD	MB5JM5	4/20/09	1136	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches. MS/MSD for QA/QC purposes.
RBS-S140	MB5JM6	4/20/09	1141	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S141	MB5JM7	4/20/09	1145	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S142	MB5JM8	4/20/09	1150	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S143	MB5JM9	4/20/09	1153	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S144	MB5JN0	4/20/09	1059	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S145	MB5JN1	4/20/09	1104	Duplicate of sample RBS-S144 for QA/QC purposes.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-S148	MB5JN4	4/21/09	0804	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S149	MB5JN5	4/21/09	0801	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S150	MB5JN6	4/21/09	0808	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S151	MB5JN7	4/21/09	0810	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S152	MB5JN8	4/21/09	0812	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S153	MB5JN9	4/21/09	0814	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S154	MB5JP0	4/21/09	0819	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S155	MB5JP1	4/21/09	0821	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S156	MB5JP2	4/21/09	0824	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S157	MB5JP3	4/21/09	0825	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S158	MB5JP4	4/21/09	0830	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S159 MS/MSD	MB5JP5	4/21/09	0832	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches. MS/MSD for QA/QC purposes.
RBS-S160	MB5JP6	4/21/09	0835	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S161	MB5JP7	4/21/09	0840	Duplicate of sample RBS-S160 for QA/QC purposes.
RBS-S162	MB5JP8	4/21/09	0846	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S163	MB5JP9	4/22/09	0819	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S164	MB5JQ0	4/22/09	0822	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S165	MB5JQ1	4/22/09	0826	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S166	MB5JQ2	4/22/09	0830	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S167	MB5JQ3	4/22/09	0842	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S168	MB5JQ4	4/22/09	0847	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S169	MB5JQ5	4/22/09	0852	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S170	MB5JQ6	4/22/09	0856	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S171	MB5JQ7	4/22/09	0901	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-S172	MB5JQ8	4/22/09	0906	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S173	MB5JQ9	4/22/09	0911	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S174	MB5JR0	4/22/09	0915	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S175	MB5JR1	4/22/09	0920	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S176	MB5JR2	4/22/09	0925	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S177	MB5JR3	4/22/09	0949	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S178	MB5JR4	4/22/09	0958	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S179 MS/MSD	MB5JR5	4/22/09	1002	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches. MS/MSD for QA/QC purposes.
RBS-S180	MB5JR6	4/22/09	1010	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S181	MB5JS0	4/22/09	1015	Duplicate of sample RBS-S180 for QA/QC purposes.
RBS-S182	MB5JS1	4/22/09	1023	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S183	MB5JS2	4/22/09	1009	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S184	MB5JS3	4/22/09	1003	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S185	MB5JS4	4/22/09	0957	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S186	MB5JS5	4/22/09	0948	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S187	MB5JS6	4/22/09	0940	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S188	MB5JS7	4/22/09	0941	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S189	MB5JS8	4/22/09	0914	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S190	MB5JS9	4/22/09	0910	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S191	MB5JT0	4/22/09	0905	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S192	MB5JT1	4/22/09	0900	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S193	MB5JT2	4/22/09	0856	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S194	MB5JT3	4/22/09	0852	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-S195	MB5JT4	4/22/09	0847	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S196	MB5JT5	4/22/09	0841	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S197	MB5JT6	4/22/09	0832	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S198 MS/MSD	MB5JT7	4/22/09	0828	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches. MS/MSD for QA/QC purposes.
RBS-S199	MB5JT8	4/22/09	0821	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S200	MB5JT9	4/22/09	0823	Duplicate of sample RBS-S199 for QA/QC purposes.
RBS-S201	MB5JW0	4/22/09	0819	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S202	MB5JW1	4/22/09	1016	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S203	MB5JW2	4/22/09	1028	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S204	MB5JW3	4/22/09	1034	Soil sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-2 inches.
RBS-S207A	MB5KD3	4/23/09	1347	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches.
RBS-S207B	MB5KD4	4/23/09	1354	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 6-12 inches.
RBS-S207C	MB5KD5	4/23/09	1359	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 12-18 inches.
RBS-S207D	MB5KD6	4/23/09	1406	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 18-24 inches.
RBS-S207E	MB5KD7	4/23/09	1352	Duplicate of RBS-S207A for QA/QC purposes.
RBS-S208A	MB5KD8	4/23/09	1416	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches.
RBS-S208B	MB5KD9	4/23/09	1420	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 6-12 inches.
RBS-S208C	MB5KE0	4/23/09	1426	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 12-18 inches.
RBS-S208D	MB5KE1	4/23/09	1432	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 18-24 inches.
RBS-S209A	MB5KE2	4/23/09	1444	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-2 inches.
RBS-S209B	MB5KE3	4/23/09	1450	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 6-12 inches.
RBS-S209C	MB5KE4	4/23/09	1454	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 12-18 inches.
RBS-S209D	MB5KE5	4/23/09	1459	Soil sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 18-24 inches.
RBS-S210A	MB5KE6	4/23/09	1532	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-S210B	MB5KE7	4/23/09	1540	Soil sample collected from an area between the second jetty and the third jetty; depth 6-12 inches.
RBS-S210C	MB5KE8	4/23/09	1549	Soil sample collected from an area between the second jetty and the third jetty; depth 12-18 inches.
RBS-S210D	MB5KE9	4/23/09	1600	Soil sample collected from an area between the second jetty and the third jetty; depth 18-24 inches.
RBS-S211A	MB5KF0	4/23/09	1609	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S211B	MB5KF1	4/23/09	1616	Soil sample collected from an area between the second jetty and the third jetty; depth 6-12 inches.
RBS-S211C	MB5KF2	4/23/09	1618	Soil sample collected from an area between the second jetty and the third jetty; depth 12-18 inches.
RBS-S211D	MB5KF3	4/23/09	1621	Soil sample collected from an area between the second jetty and the third jetty; depth18-24 inches.
RBS-S211E	MB5KF4	4/23/09	1614	Duplicate of RBS-S211A for QA/QC purposes.
RBS-S212A	MB56S5	4/23/09	1500	Soil sample collected from an area between the second jetty and the third jetty; depth 0-2 inches.
RBS-S212B	MB56S6	4/23/09	1510	Soil sample collected from an area between the second jetty and the third jetty; depth 6-12 inches.
RBS-S212C	MB56S7	4/23/09	1525	Soil sample collected from an area between the second jetty and the third jetty; depth 12-18 inches.
RBS-S212D	MB56S8	4/23/09	1530	Soil sample collected from an area between the second jetty and the third jetty; depth 18-24 inches.
RBS-S213A	MB56S9	4/23/09	1602	Soil sample collected from an area between the first jetty and the second jetty; depth 0-2 inches.
RBS-S213B	MB56T0	4/23/09	1605	Soil sample collected from an area between the first jetty and the second jetty; depth 6-12 inches.
RBS-S213C	MB56T1	4/23/09	1610	Soil sample collected from an area between the first jetty and the second jetty; depth 12-18 inches.
RBS-S213D	MB56T2	4/23/09	1612	Soil sample collected from an area between the first jetty and the second jetty; depth 18-24 inches.
RBS-SED91 MS/MSD	MB5JW6	4/23/09	1145	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches. MS/MSD for QA/QC purposes.
RBS-SED92	MB5JW7	4/21/09	1409	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED93	MB5JW8	4/21/09	1415	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches. Duplicate of sample RBS-SED92 for QA/QC purposes.
RBS-SED94	MB5JW9	4/21/09	1420	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED95	MB5JX0	4/21/09	1430	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED96	MB5JX1	4/23/09	1215	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED97	MB5JX2	4/23/09	1155	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-SED98	MB5JX3	4/23/09	1146	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED99	MB5JX4	4/21/09	1402	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED100	MB5JX5	4/23/09	1139	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED101	MB5JX6	4/23/09	1133	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED102	MB5JX7	4/23/09	1114	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED103	MB5JX8	4/23/09	1106	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED104	MB5JX9	4/23/09	1100	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED105	MB5JY0	4/23/09	1051	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED106	MB5JY1	4/23/09	1111	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED107	MB5JY2	4/23/09	1119	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED108	MB5JY3	4/23/09	1126	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED109	MB5JY4	4/23/09	1121	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED110	MB5JY5	4/23/09	1137	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED111 MS/MSD	MB5JY6	4/23/09	1135	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches. MS/MSD for QA/QC purposes.
RBS-SED112	MB5JY7	4/23/09	1146	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED113	MB5JY8	4/23/09	1149	Duplicate of sample RBS-SED112 for QA/QC purposes.
RBS-SED114	MB5JY9	4/23/09	1238	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED115	MB5JZ0	4/23/09	1205	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED116	MB5JZ1	4/23/09	1206	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED117	MB5JZ2	4/23/09	1212	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED118	MB5JZ3	4/23/09	1220	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED119	MB5JZ4	4/23/09	1217	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.
RBS-SED120	MB5JZ5	4/21/09	1406	Sediment sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet; depth 0-3 inches.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-SED121	MB5JZ6	4/21/09	0913	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED122	MB5JZ7	4/21/09	0919	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED123	MB5JZ8	4/21/09	0923	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED124	MB5JZ9	4/21/09	0927	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED125	MB5K00	4/21/09	0931	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED126	MB5K01	4/21/09	0942	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED127	MB5K02	4/21/09	0943	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED128	MB5K03	4/21/09	0952	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED129	MB5K04	4/21/09	0950	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED130	MB5K05	4/21/09	0959	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED131 MS/MSD	MB5K06	4/21/09	1001	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches. MS/MSD for QA/QC purposes.
RBS-SED132	MB5K07	4/21/09	1225	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED133	MB5K08	4/21/09	1230	Duplicate of sample RBS-SED132 for QA/QC purposes.
RBS-SED134	MB5K09	4/21/09	1220	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED135	MB5K10	4/21/09	1213	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED136	MB5K11	4/21/09	1212	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED137	MB5K12	4/21/09	1210	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED138	MB5K13	4/21/09	1210	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED139	MB5K14	4/21/09	1207	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED140	MB5K15	4/21/09	1200	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED141	MB5K16	4/21/09	1157	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED142	MB5K17	4/21/09	1148	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED143	MB5K18	4/21/09	1145	Sediment sample collected from an area between the second jetty and the third jetty; depth 0-3 inches.
RBS-SED144	MB5K19	4/21/09	0841	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-SED145	MB5K20	4/21/09	0849	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED146	MB5K21	4/21/09	0853	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED147	MB5K22	4/21/09	0855	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED148	MB5K23	4/21/09	0900	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED149	MB5K24	4/21/09	0907	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED150	MB5K25	4/21/09	0907	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED151 MS/MSD	MB5K26	4/21/09	1120	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches. MS/MSD for QA/QC purposes.
RBS-SED152	MB5K27	4/21/09	1129	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED153	MB5K28	4/21/09	1124	Duplicate of sample RBS-SED152 for QA/QC purposes.
RBS-SED154	MB5K29	4/21/09	1120	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED155	MB5K30	4/21/09	1112	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED156	MB5K31	4/21/09	1110	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED157	MB5K32	4/21/09	1100	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED158	MB5K33	4/21/09	1103	Sediment sample collected from an area between the first jetty and the second jetty; depth 0-3 inches.
RBS-SED159	MB5K34	4/22/09	1220	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED160	MB5K35	4/22/09	1225	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED161	MB5K36	4/22/09	1226	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED162	MB5K37	4/22/09	1231	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED163	MB5K38	4/22/09	1238	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED164	MB5K39	4/22/09	1245	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-SED165	MB5K40	4/22/09	1251	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED166	MB5K41	4/22/09	1257	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED167	MB5K42	4/22/09	1305	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED168	MB5K43	4/22/09	1310	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED169	MB5K44	4/22/09	1319	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED170	MB5K45	4/22/09	1325	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED171 MS/MSD	MB5K46	4/22/09	1334	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches. MS/MSD for QA/QC purposes.
RBS-SED172	MB5K47	4/22/09	1335	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED173	MB5K48	4/22/09	1340	Duplicate of RBS-SED172 for QA/QC purposes.
RBS-SED174	MB5K49	4/22/09	1340	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED175	MB5K50	4/22/09	1345	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED176	MB5K51	4/22/09	1352	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED177	MB5K52	4/22/09	1400	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED178	MB5K53	4/22/09	1411	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED179	MB5K54	4/22/09	1417	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED180	MB5K55	4/22/09	1357	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-SED181	MB5K56	4/22/09	1349	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED182	MB5K57	4/22/09	1345	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED183	MB5K58	4/22/09	1340	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED184	MB5K59	4/22/09	1330	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED185	MB5K60	4/22/09	1329	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED186	MB5K61	4/22/09	1320	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED187	MB5K62	4/22/09	1317	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED188	MB5K63	4/22/09	1310	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED189	MB5K64	4/22/09	1309	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED190	MB5K65	4/22/09	1302	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED191 MS/MSD	MB5K66	4/22/09	1302	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches. MS/MSD for QA/QC purposes.
RBS-SED192	MB5K67	4/22/09	1250	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED193	MB5K68	4/22/09	1255	Duplicate of RBS-SED192 for QA/QC purposes.
RBS-SED194	MB5K69	4/22/09	1249	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED195	MB5K70	4/23/09	1143	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED196	MB5K71	4/22/09	1237	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-SED197	MB5K72	4/22/09	1233	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED198	MB5K73	4/22/09	1231	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED199	MB5K74	4/22/09	1220	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SED200	MB5K75	4/23/09	1059	Background sediment sample collected from an area suspected not to be influenced by past site activities; depth 0-3 in.
RBS-SED201	MB5K76	4/23/09	1112	Background sediment sample collected from an area suspected not to be influenced by past site activities; depth 0-3 in.
RBS-SED202	MB5K77	4/23/09	1123	Background sediment sample collected from an area suspected not to be influenced by past site activities; depth 0-3 in.
RBS-SED203	MB5K78	4/23/09	1129	Background sediment sample collected from an area suspected not to be influenced by past site activities; depth 0-3 in.
RBS-SED204	MB5K79	4/23/09	1118	Background sediment sample collected from an area suspected not to be influenced by past site activities; depth 0-3 in.
RBS-SED205	MB5K80	4/23/09	1106	Background sediment sample collected from an area suspected not to be influenced by past site activities; depth 0-3 in.
RBS-SED206	MB5K81	4/22/09	1415	Sediment sample collected from an area east of Margaret's Creek between the creek and the Middlesex County pumping station; depth 0-3 inches.
RBS-SW25 MS/MSD	MB5K86	4/23/09	1338	Surface water sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet. MS/MSD for QA/QC purposes.
RBS-SW25D MS/MSD	MB5K87	4/23/09	1340	Surface water sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet. MS/MSD for QA/QC purposes.
RBS-SW26	MB5K88	4/23/09	1344	Activity based surface water sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet.
RBS-SW26D	MB5K89	4/23/09	1346	Activity based surface water sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet.
RBS-SW27	MB5K90	4/23/09	1355	Duplicate of sample RBS-SW26 for QA/QC purposes.
RBS-SW27D	MB5K91	4/23/09	1357	Duplicate of sample RBS-SW26D for QA/QC purposes.
RBS-SW28	MB5K92	4/23/09	1400	Activity based surface water sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet.
RBS-SW28D	MB5K93	4/23/09	1402	Activity based surface water sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet.
RBS-SW29	MB5K94	4/23/09	1410	Activity based surface water sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet.
RBS-SW29D	MB5K95	4/23/09	1412	Activity based surface water sample collected from an area between the third jetty and the eastern jetty at the Cheesequake Creek inlet.
RBS-SW30	MB5K96	4/21/09	1231	Activity based surface water sample collected from an area between the second jetty and the third jetty.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-SW30D	MB5K97	4/21/09	1233	Activity based surface water sample collected from an area between the second jetty and the third jetty.
RBS-SW31	MB5K98	4/21/09	1235	Activity based surface water sample collected from an area between the second jetty and the third jetty.
RBS-SW31D	MB5K99	4/21/09	1237	Activity based surface water sample collected from an area between the second jetty and the third jetty.
RBS-SW32	MB5KA0	4/21/09	1240	Surface water sample collected from an area between the second jetty and the third jetty.
RBS-SW32D	MB5KA1	4/21/09	1242	Surface water sample collected from an area between the second jetty and the third jetty.
RBS-SW33	MB5KA2	4/21/09	1245	Activity based surface water sample collected from an area between the second jetty and the third jetty.
RBS-SW33D	MB5KA3	4/21/09	1247	Activity based surface water sample collected from an area between the second jetty and the third jetty.
RBS-SW34	MB5KA4	4/21/09	1058	Surface water sample collected from an area between the first jetty and the second jetty.
RBS-SW34D	MB5KA5	4/21/09	1100	Surface water sample collected from an area between the first jetty and the second jetty.
RBS-SW35	MB5KA6	4/21/09	1106	Activity based surface water sample collected from an area between the first jetty and the second jetty.
RBS-SW35D	MB5KA7	4/21/09	1108	Activity based surface water sample collected from an area between the first jetty and the second jetty.
RBS-SW36	MB5KA8	4/21/09	1112	Activity based surface water sample collected from an area between the first jetty and the second jetty.
RBS-SW36D	MB5KA9	4/21/09	1114	Activity based surface water sample collected from an area between the first jetty and the second jetty.
RBS-SW37	MB5KB0	4/22/09	1410	Activity based surface water sample collected from area east of Margaret's Creek between the creek and the Middlesex County pumping station.
RBS-SW37D	MB5KB1	4/22/09	1412	Activity based surface water sample collected from area east of Margaret's Creek between the creek and the Middlesex County pumping station.
RBS-SW38	MB5KB2	4/22/09	1349	Activity based surface water sample collected from area east of Margaret's Creek between the creek and the Middlesex County pumping station.
RBS-SW38D	MB5KB3	4/22/09	1351	Activity based surface water sample collected from area east of Margaret's Creek between the creek and the Middlesex County pumping station.
RBS-SW39	MB5KB4	4/22/09	1328	Surface water sample collected from area east of Margaret's Creek between the creek and the Middlesex County pumping station.
RBS-SW39D	MB5KB5	4/22/09	1330	Surface water sample collected from area east of Margaret's Creek between the creek and the Middlesex County pumping station.
RBS-SW40	MB5KB6	4/22/09	1308	Activity based surface water sample collected from area east of Margaret's Creek between the creek and the Middlesex County pumping station.

TABLE 1 (continued)
SAMPLE DESCRIPTIONS
RARITAN BAY SLAG SITE SECOND PHASE
OLD BRIDGE AND SAYREVLLE, NEW JERSEY

SAMPLE NUMBER	INORGANIC CLP NO.	DATE	TIME	COMMENTS
RBS-SW40D	MB5KB7	4/22/09	1310	Activity based surface water sample collected from area east of Margaret's Creek between the creek and the Middlesex County pumping station.
RBS-SW41	MB5KB8	4/22/09	1246	Activity based surface water sample collected from area east of Margaret's Creek between the creek and the Middlesex County pumping station.
RBS-SW41D	MB5KB9	4/22/09	1248	Activity based surface water sample collected from area east of Margaret's Creek between the creek and the Middlesex County pumping station.
RBS-RIN05	MB5KC8	4/20/09	1330	Rinsate blank (dedicated, disposable plastic scoop and tray) for QA/QC purposes.
RBS-RIN06	MB5KC9	4/21/09	1455	Rinsate blank (dedicated, disposable plastic scoop and tray) for QA/QC purposes.
RBS-RIN07	MB5KD0	4/22/09	1155	Rinsate blank (dedicated, disposable plastic scoop and tray) for QA/QC purposes.
RBS-RIN08	MB5KD1	4/23/09	1330	Rinsate blank (dedicated, disposable plastic scoop and tray) for QA/QC purposes.

Notes: Surface water sample numbers containing a 'D' (RBS-SW25D) indicates that the samples were analyzed for Dissolved Metals.

SITE LOCATION AND SAMPLE LOCATION MAPS

LEGEND:

Site Location

National Geographic TOPO! U.S. Geologic Survey (USGS). 7.5 Minute Series (Topographic) Quadrangles: Keyport, NJ, 1977 and South Amboy, NJ, 1995.

TITLE:

Site Location Map
Raritan Bay Slag
Laurence Harbor, NJ

PROJECT:
Raritan Bay Slag

CLIENT NAME:
EPA

WESTON SOLUTIONS

DATE:
August 2008

FIGURE #:
1

P:\SAT2\Raritan_Bay_Slag\MXD\05944_RBS_Site_Loc.mxd

SOURCES:
1. SOURCE:
New Jersey 2002 High Resolution Orthophotography. State of New Jersey Office of Information Technology, Office of Geographic Information Systems. http://njgin.nj.gov/OIT_IW/index.jsp.
2. Weston Solutions, Inc. Region 2 Removal Support Team 2, Site Logbooks RST2-02-F-0674, RST2-02-F-0675, and RST2-02-F-0676, April 20 - April 23, 2009.

Legend

- Soil Sample Location
- Surface Water Sample Location
- Sediment Sample Location

250 0 250 500
Graphic Scale In Feet

N
W E
S

Weston Solutions, Inc.
205 Campus Drive Edison, New Jersey 08837-3939
TEL: (732) 417-5800 Fax: (732) 417-5801
http://www.westonsolutions.com

REPORT DATE: April 2009	PROJECT MANAGER: D. Gaughan
DRAWING: 06551_RBS_April_Loc.mxd PATH: P:/SAT2/Raritan_Bay_Slag/MXD	CHECKED BY: D. Gaughan
REVISION No. 0	CONTRACT No. EP-W-06-072
WORK ORDER No. 20401.032.011.2206	DRAWN/MODIFIED BY: J. Lynes DATE CREATED: 04/24/2009

CLIENT NAME: EPA

PROJECT NAME: Raritan Bay Slag Site

DRAWING TITLE:
Raritan Bay Slag Site
April 2009 Sample Location Map

FIGURE: 2 | SCALE: 1" = 250' | DATE: 04/30/2009

ATTACHMENT 1

TRAFFIC REPORTS/CHAIN OF CUSTODY RECORDS/
FEDEX AIRBILLS

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2
Project Code:	
Account Code:	
CERCLIS ID:	NJN000206276
Spill ID:	A205
Site Name/State:	Raritan Bay Slag Site/NJ
Project Leader:	Dan Gaughan
Action:	Integrated Assessment (IA)
Sampling Co:	WESTON - RST 2

Date Shipped:	09-04-20
Carrier Name:	FedEx
Airbill:	8627 4314 8293
Shipped to:	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	4/20/20 1415	FedEx	4/21/20 1415
2			
3			
4			

Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5JH5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S99	S: 09-04-20 8:55		--
MB5JH6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S100	S: 09-04-20 8:58		--
MB5JH7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S101	S: 09-04-20 8:50		--
MB5JH8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S102	S: 09-04-20 8:45		--
MB5JH9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S103	S: 09-04-20 8:55		--
MB5JJ0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S104	S: 09-04-20 8:51		--
MB5JJ1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S105	S: 09-04-20 8:50		--
MB5JJ2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S106	S: 09-04-20 8:45		--
MB5JJ3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S107	S: 09-04-20 9:40		--
MB5JJ4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S108	S: 09-04-20 9:45		Field Duplicate

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MB5JH5	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
In (soil) = TAL Inorganics (soil)			

TR Number: **2-344931618-042009-0001**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Kristin VonMoll, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4235; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-20	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	8627 4314 8293	1 4/20/20 1745	FedEx 4/20/20 1745
CERCLIS ID:	NJN000206276	**Shipped to:**	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854	2	
Spill ID:	A205			3	
Site Name/State:	Raritan Bay Slag Site/NJ			4	
Project Leader:	Dan Gaughan				
Action:	Integrated Assessment (IA)				
Sampling Co:	WESTON - RST 2				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5JJ5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S109	S: 09-04-20 10:01		--
MB5JJ6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S110	S: 09-04-20 10:11		--
MB5JJ7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S111	S: 09-04-20 10:22		--
MB5JJ8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S112	S: 09-04-20 10:40		--
MB5JJ9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S113	S: 09-04-20 10:37		--
MB5JK0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S114	S: 09-04-20 10:40		--
MB5JK1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S115	S: 09-04-20 10:48		--
MB5JK2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S116	S: 09-04-20 10:50		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** MB5JH5	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: In (soil) = TAL Inorganics (soil)	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?**

TR Number: 2-344931618-042009-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Kristin VonMoll, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4235; Fax 703/818-4602

REGION COPY

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region: 2	**Date Shipped:** 09-04-20	**Chain of Custody Record**	**Sampler Signature:**
Project Code:	**Carrier Name:** FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:	**Airbill:** 8627 4314 8293	1 4/2/09 1415	FedEx 4/2/09 1415
CERCLIS ID: NJN000206276	**Shipped to:** Bonner Analytical Testing Company	2	
Spill ID: A205	2703 Oak Grove Rd	3	
Site Name/State: Raritan Bay Slag Site/NJ	Hattiesburg MS 39402	4	
Project Leader: Dan Gaughan	(601) 264-2854		
Action: Integrated Assessment (IA)			
Sampling Co: WESTON - RST 2			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5JK3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S117	S: 09-04-20 10:52		--
MB5JK4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S118	S: 09-04-20 10:55		--
MB5JK5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S119	S: 09-04-20 10:58		--
MB5JK6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S120	S: 09-04-20 11:03		--
MB5JK7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S121	S: 09-04-20 11:06		Field Duplicate
MB5JK8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S122	S: 09-04-20 11:05		--
MB5JK9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S123	S: 09-04-20 11:06		--
MB5JL0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S124	S: 09-04-20 11:10		--
MB5JL1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S125	S: 09-04-20 11:10		--
MB5JL2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S126	S: 09-04-20 11:12		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** MB5JK5, MB5JM5	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?**

In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042009-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Kristin VonMoll, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4235; Fax 703/818-4602

EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-20	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	8627 4314 8293	1 [signature] 4/20/20 1745	FedEx 4/20/20 1745
CERCLIS ID:	NJN000206276	**Shipped to:**	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854	2	
Spill ID:	A205			3	
Site Name/State:	Raritan Bay Slag Site/NJ			4	
Project Leader:	Dan Gaughan				
Action:	Integrated Assessment (IA)				
Sampling Co:	WESTON - RST 2				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5JL3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S127	S: 09-04-20 11:24		--
MB5JL4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S128	S: 09-04-20 11:31		--
MB5JL5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S129	S: 09-04-20 11:39		--
MB5JL6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S130	S: 09-04-20 11:46		--
MB5JL7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S131	S: 09-04-20 11:46		--
MB5JL8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S132	S: 09-04-20 11:42		--
MB5JL9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S133	S: 09-04-20 11:36		--
MB5JM0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S134	S: 09-04-20 11:25		--
MB5JM1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S135	S: 09-04-20 11:23		--
MB5JM2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S136	S: 09-04-20 11:15		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** MB5JK5, MB5JM5	**Additional Sampler Signature(s):** [signature]	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042009-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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Send Copy to: Sample Management Office, Attn: Kristin VonMoll, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4235; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	Date Shipped:	09-04-20	**Chain of Custody Record**	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	8627 4314 8293	1 [signature] 4/20/20 1415	FedEx 4/20/20 1415
CERCLIS ID:	NJN000206276	Shipped to:	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854	2	
Spill ID:	A205			3	
Site Name/State:	Raritan Bay Slag Site/NJ			4	
Project Leader:	Dan Gaughan				
Action:	Integrated Assessment (IA)				
Sampling Co:	WESTON - RST 2				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5JM3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S137	S: 09-04-20 11:18		--
MB5JM4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S138	S: 09-04-20 11:30		--
MB5JM5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S139	S: 09-04-20 11:36		--
MB5JM6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S140	S: 09-04-20 11:41		--
MB5JM7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S141	S: 09-04-20 11:45		--
MB5JM8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S142	S: 09-04-20 11:50		--
MB5JM9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S143	S: 09-04-20 11:53		--
MB5JN0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S144	S: 09-04-20 10:59		--
MB5JN1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S145	S: 09-04-20 11:04		Field Duplicate
MB5KC8	Field QC/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-RIN05	S: 09-04-20 13:30		Rinsate

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** MB5JK5, MB5JM5	**Additional Sampler Signature(s):** [signature]	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042009-0002

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FedEx Express **US Airbill**

FedEx Tracking Number **8627 4314 8293**

Form ID No. **0200** **Sender's Copy**

1 From *Please print and press hard.*

Date 4/20/09 Sender's FedEx Account Number 396778823

Sender's Name Scott Snyder Phone (732) 417-5600

Company Weston Solutions, Inc.

Address 200 Campus Dr. Dept./Floor/Suite/Room

City Edison State NJ ZIP 08837

2 Your Internal Billing Reference First 24 characters will appear on invoice. 20401.035.011.2204

3 To

Recipient's Name Beth Whitehead Phone (601) 264-2854

Company Banner Analytical Testing

Recipient's Address 2703 Oak Grove Rd. Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Hattiesburg State MS ZIP 39402

4a Express Package Service *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other — * Declared value limit $500.

6 Special Handling Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday** at FedEx Location NOT Available for FedEx First Overnight.
- [ ] **HOLD Saturday** at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [X] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. 396778823 Exp. Date

Total Packages	Total Weight	Total Declared Value†
1	120	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-21	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	8627 4314 8308	1 [signature] 4/21/09 1640	FedEx 4/21/09 1640
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
Spill ID:	A205			3	
Site Name/State:	Raritan Bay Slag Site/NJ			4	
Project Leader:	Dan Gaughan				
Action:	Integrated Assessment (IA)				
Sampling Co:	WESTON - RST 2				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MB5JN4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S148	S: 09-04-21	8:04		--
MB5JN5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S149	S: 09-04-21	8:01		--
MB5JN6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S150	S: 09-04-21	8:08		--
MB5JN7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S151	S: 09-04-21	8:10		--
MB5JN8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S152	S: 09-04-21	8:12		--
MB5JN9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S153	S: 09-04-21	8:14		--
MB5JP0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S154	S: 09-04-21	8:19		--
MB5JP1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S155	S: 09-04-21	8:21		--
MB5JP2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S156	S: 09-04-21	8:24		--
MB5JP3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S157	S: 09-04-21	8:25		--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	MB5JP5	[signature]	
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____
In (soil) = TAL Inorganics (soil)			

TR Number: **2-344931618-042109-0003**

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EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-21	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	8627 4314 8308	1 4/21/09 1640	FedEx 4/21/09 1640
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
Spill ID:	A205			3	
Site Name/State:	Raritan Bay Slag Site/NJ			4	
Project Leader:	Dan Gaughan				
Action:	Integrated Assessment (IA)				
Sampling Co:	WESTON - RST 2				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MB5JP4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S158	S: 09-04-21	8:30		--
MB5JP5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S159	S: 09-04-21	8:32		--
MB5JP6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S160	S: 09-04-21	8:35		--
MB5JP7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S161	S: 09-04-21	8:40		Field Duplicate
MB5JP8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S162	S: 09-04-21	8:46		--
MB5K19	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED144	S: 09-04-21	8:41		--
MB5K20	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED145	S: 09-04-21	8:49		--
MB5K21	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED146	S: 09-04-21	8:53		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** MB5JP5	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: In (soil) = TAL Inorganics (soil)	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: **2-344931618-042109-0003**

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-21	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	8627 4314 8308	1 4/21/09 1640	FedEx 4/21/09 1640
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
Spill ID:	A205			3	
Site Name/State:	Raritan Bay Slag Site/NJ			4	
Project Leader:	Dan Gaughan				
Action:	Integrated Assessment (IA)				
Sampling Co:	WESTON - RST 2				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MB5JZ6	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED121	S: 09-04-21	9:13		--
MB5JZ7	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED122	S: 09-04-21	9:19		--
MB5JZ8	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED123	S: 09-04-21	9:23		--
MB5JZ9	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED124	S: 09-04-21	9:27		--
MB5K00	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED125	S: 09-04-21	9:31		--
MB5K01	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED126	S: 09-04-21	9:42		--
MB5K02	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED127	S: 09-04-21	9:43		--
MB5K03	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED128	S: 09-04-21	9:52		--
MB5K04	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED129	S: 09-04-21	9:50		--
MB5K05	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED130	S: 09-04-21	9:59		--
MB5K06	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED131	S: 09-04-21	10:01		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** MB5K06	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?**

In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042109-0004

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region: 2	**Date Shipped:** 09-04-21	**Chain of Custody Record**	**Sampler Signature:**
Project Code:	**Carrier Name:** FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:	**Airbill:** 8627 4314 8308	1 4/21/21 1640	FedEx 4/22/21 0840
CERCLIS ID: NJN000206276	**Shipped to:** Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
Spill ID: A205		3	
Site Name/State: Raritan Bay Slag Site/NJ		4	
Project Leader: Dan Gaughan			
Action: Integrated Assessment (IA)			
Sampling Co: WESTON - RST 2			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MB5K07	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED132	S: 09-04-21	12:25		--
MB5K08	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED133	S: 09-04-21	12:30		Field Duplicate
MB5K09	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED134	S: 09-04-21	12:20		--
MB5K22	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED147	S: 09-04-21	8:55		--
MB5K23	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED148	S: 09-04-21	9:00		--
MB5K24	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED149	S: 09-04-21	9:07		--
MB5K25	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED150	S: 09-04-21	9:07		--
MB5KC9	Field QC/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-RIN06	S: 09-04-21	14:55		Rinsate

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** MB5K06	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042109-0004

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EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region: 2	Date Shipped: 09-04-21	**Chain of Custody Record**	Sampler Signature:
Project Code:	Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	Airbill: 8627 4314 8308	1 4/21/21 1640	FedEx 4/21/21 1640
CERCLIS ID: NJN000206276	Shipped to: Liberty Analytical Corporation	2	
Spill ID: A205	501 Madison Avenue	3	
Site Name/State: Raritan Bay Slag Site/NJ	Cary NC 27513	4	
Project Leader: Dan Gaughan	(919) 379-4100		
Action: Integrated Assessment (IA)			
Sampling Co: WESTON - RST 2			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5K10	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED135	S: 09-04-21 12:13		--
MB5K11	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED136	S: 09-04-21 12:12		--
MB5K12	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED137	S: 09-04-21 12:10		--
MB5K13	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED138	S: 09-04-21 12:10		--
MB5K14	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED139	S: 09-04-21 12:07		--
MB5K15	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED140	S: 09-04-21 12:00		--
MB5K16	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED141	S: 09-04-21 11:57		--
MB5K17	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED142	S: 09-04-21 ~~11:16~~ 1146 DSG		--
MB5K18	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED143	S: 09-04-21 ~~11:16~~ 1145 DSG		--
MB5K26	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED151	S: 09-04-21 11:20		--
MB5K27	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED152	S: 09-04-21 11:29		--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MB5K26	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: In (soil) = TAL Inorganics (soil)	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 2-344931618-042109-0005

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-21	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	8627 4314 8308	1 4/21/09 1640	FedEx 4/21/09 1640
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
Spill ID:	A205			3	
Site Name/State:	Raritan Bay Slag Site/NJ			4	
Project Leader:	Dan Gaughan				
Action:	Integrated Assessment (IA)				
Sampling Co:	WESTON - RST 2				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MB5K28	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED153	S: 09-04-21	11:24		Field Duplicate
MB5K29	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED154	S: 09-04-21	11:20		--
MB5K30	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED155	S: 09-04-21	11:12		--
MB5K31	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED156	S: 09-04-21	11:10		--
MB5K32	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED157	S: 09-04-21	11:00		--
MB5K33	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED158	S: 09-04-21	11:03		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** MB5K26	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: In (soil) = TAL Inorganics (soil)	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 2-344931618-042109-0005

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

REGION COPY

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region: 2	**Date Shipped:** 09-04-21	**Chain of Custody Record**	**Sampler Signature:**
Project Code:	**Carrier Name:** FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:	**Airbill:** 8627 4314 8308	1 4/20/21 1640	FedEx 4/21/09:1640
CERCLIS ID: NJN000206276	**Shipped to:** Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
Spill ID: A205		3	
Site Name/State: Raritan Bay Slag Site/NJ		4	
Project Leader: Dan Gaughan			
Action: Integrated Assessment (IA)			
Sampling Co: WESTON - RST 2			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5JW7	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED92	S: 09-04-21 14:09		--
MB5JW8	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED93	S: 09-04-21 14:15		Field Duplicate
MB5JW9	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED94	S: 09-04-21 14:20		--
MB5JX0	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED95	S: 09-04-21 14:30		--
MB5JX4	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED99	S: 09-04-21 14:02		--
MB5JZ5	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED120	S: 09-04-21 14:06		--
MB5K96	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW30	S: 09-04-21 12:31		--
MB5K97	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW30D	S: 09-04-21 12:33		--
MB5K98	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW31	S: 09-04-21 12:35		--
MB5K99	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW31D	S: 09-04-21 12:37		--
MB5KA0	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW32	S: 09-04-21 12:40		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

DTAL = Dissolved Metals (aqueous), In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042109-0006

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-21
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8308
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	9/2/21 1640	FedEx	9/2/21 1640
2			
3			
4			

Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5KA1	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW32D	S: 09-04-21 12:42		--
MB5KA2	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW33	S: 09-04-21 12:45		--
MB5KA3	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW33D	S: 09-04-21 12:47		--
MB5KA4	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW34	S: 09-04-21 10:58		--
MB5KA5	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW34D	S: 09-04-21 11:00		--
MB5KA6	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW35	S: 09-04-21 11:06		--
MB5KA7	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW35D	S: 09-04-21 11:08		--
MB5KA8	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW36	S: 09-04-21 11:12		--
MB5KA9	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW36D	S: 09-04-~~08~~ 21 11:14		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

DTAL = Dissolved Metals (aqueous), In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042109-0006

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FedEx Express **US Airbill**

FedEx Tracking Number **8627 4314 8308**

28 x 15 x 18

Form ID No. 0200

Sender's Copy

1 From *Please print and press hard.*

Date 4/21/09 Sender's FedEx Account Number 396778823

Sender's Name Scott Snyder Phone (732) 417-5500

Company Weston Solutions, Inc.

Address 205 Campus Dr.

Dept./Floor/Suite/Room

City Edison State NJ ZIP 08837

2 Your Internal Billing Reference First 24 characters will appear on invoice. 20401.035.011.2206

3 To

Recipient's Name Joan Purdie Phone (919) 379-4080

Company Liberty Analytical Corp.

Recipient's Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address 501 Madison Ave.

To request a package be held at a specific FedEx location, print FedEx address here.

City Cary State NC ZIP 27513

Find drop-off locations at fedex.com
Simplify your shipping. Manage your account. Access all the tools you need.

4a Express Package Service *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation. ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

* Declared value limit $500.

6 Special Handling Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday** at FedEx Location NOT Available for FedEx First Overnight.
- [ ] **HOLD Saturday** at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [X] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. 396 778 823 Exp. Date

Total Packages	Total Weight	Total Declared Value†
		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	Date Shipped:	09-04-22
Project Code:		Carrier Name:	FedEx
Account Code:		Airbill:	8627 4314 8319
CERCLIS ID:	NJN000206276	Shipped to:	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Sampler Signature:

Relinquished By (Date / Time)	Received By (Date / Time)
1 4/22/09 1740	FedEx 4/22/09 1740
2	
3	
4	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MB5JP9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S163	S: 09-04-22	8:19		--
MB5JQ0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S164	S: 09-04-22	8:22		--
MB5JQ1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S165	S: 09-04-22	8:26		--
MB5JQ2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S166	S: 09-04-22	8:30		--
MB5JQ3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S167	S: 09-04-22	8:42		--
MB5JQ4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S168	S: 09-04-22	8:47		--
MB5JQ5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S169	S: 09-04-22	8:52		--
MB5JQ6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S170	S: 09-04-22	8:56		--
MB5JQ7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S171	S: 09-04-22	9:01		--
MB5JQ8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S172	S: 09-04-22	9:06		--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
In (soil) = TAL Inorganics (soil)			

TR Number: 2-344931618-042209-0007

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-22
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8319
CERCLIS ID:	NJN000206276	**Shipped to:**	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	4/22/09 1740	FedEx	4/22/09 1740
2			
3			
4			

Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5JQ9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S173	S: 09-04-22 9:11		--
MB5JR0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S174	S: 09-04-22 9:15		--
MB5JS8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S189	S: 09-04-22 9:14		--
MB5JS9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S190	S: 09-04-22 9:10		--
MB5JT0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S191	S: 09-04-22 9:05		--
MB5JT1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S192	S: 09-04-22 9:00		--
MB5JT2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S193	S: 09-04-22 8:56		--
MB5JT3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S194	S: 09-04-22 8:52		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?**

In (soil) = TAL Inorganics (soil)

TR Number: 2-344931618-042209-0007

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-22
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8319
CERCLIS ID:	NJN000206276	**Shipped to:**	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Sampler Signature:

	Relinquished By (Date / Time)	Received By (Date / Time)
1	4/22/09 1740	FedEx 4/23/09 1740
2		
3		
4		

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MB5JR1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S175	S: 09-04-22	9:20		--
MB5JR2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S176	S: 09-04-22	9:25		--
MB5JR3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S177	S: 09-04-22	9:49		--
MB5JR4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S178	S: 09-04-22	9:58		--
MB5JR5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S179	S: 09-04-22	10:02		--
MB5JR6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S180	S: 09-04-22	10:10		--
MB5JS0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S181	S: 09-04-22	10:15		Field Duplicate
MB5JS1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S182	S: 09-04-22	10:23		--
MB5JS2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S183	S: 09-04-22	10:09		--
MB5JS3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S184	S: 09-04-22	10:03		--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	MB5JR5, MB5JT7		
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____
In (soil) = TAL Inorganics (soil)			

TR Number: **2-344931618-042209-0008**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-22
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8319
CERCLIS ID:	NJN000206276	**Shipped to:**	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	4/22/09 1740	FedEx 4/22/09 1740
2		
3		
4		

Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5JS4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S185	S: 09-04-22 9:57		--
MB5JT4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S195	S: 09-04-22 8:47		--
MB5JT5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S196	S: 09-04-22 8:41		--
MB5JT6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S197	S: 09-04-22 8:32		--
MB5JT7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S198	S: 09-04-22 8:28		--
MB5JT8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S199	S: 09-04-22 8:21		--
MB5JT9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S200	S: 09-04-22 8:23		Field Duplicate
MB5JW0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S201	S: 09-04-22 8:19		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** MB5JR5, MB5JT7	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____
In (soil) = TAL Inorganics (soil)			

TR Number: **2-344931618-042209-0008**

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	Date Shipped:	09-04-22
Project Code:		Carrier Name:	FedEx
Account Code:		Airbill:	8627 4314 8319
CERCLIS ID:	NJN000206276	Shipped to:	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Sampler Signature:

Relinquished By (Date / Time)	Received By (Date / Time)
1 4/22/09 1740	FedEx 4/22/09 1740
2	
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INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5JS5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S186	S: 09-04-22 9:48		--
MB5JS6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S187	S: 09-04-22 9:40		--
MB5JS7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S188	S: 09-04-22 9:41		--
MB5JW1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S202	S: 09-04-22 10:16		--
MB5JW2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S203	S: 09-04-22 10:28		--
MB5JW3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S204	S: 09-04-22 10:34		--
MB5K34	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED159	S: 09-04-22 12:20		--
MB5K35	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED160	S: 09-04-22 12:25		--
MB5K36	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED161	S: 09-04-22 12:26		--
MB5K37	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED162	S: 09-04-22 12:31		--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042209-0009

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-22
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8319
CERCLIS ID:	NJN000206276	**Shipped to:**	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Sampler Signature:

Relinquished By (Date / Time)	Received By (Date / Time)
1 4/22/09 1740	FedEx 4/22/09 1740
2	
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INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5K38	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED163	S: 09-04-22 12:38		--
MB5K39	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED164	S: 09-04-22 12:45		--
MB5K40	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED165	S: 09-04-22 12:51		--
MB5K41	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED166	S: 09-04-22 12:57		--
MB5K42	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED167	S: 09-04-22 13:05		--
MB5K43	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED168	S: 09-04-22 13:10		--
MB5K44	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED169	S: 09-04-22 13:19		--
MB5KD0	Field QC/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-RIN07	S: 09-04-22 11:55		Rinsate

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?**

In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042209-0009

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REGION COPY

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region: 2	Date Shipped: 09-04-22	**Chain of Custody Record**	Sampler Signature:
Project Code:	Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	Airbill: 8627 4314 8319	1 4/22/09 1740	FedEx 4/22/09 1740
CERCLIS ID: NJN000206276	Shipped to: Bonner Analytical Testing Company	2	
Spill ID: A205	2703 Oak Grove Rd	3	
Site Name/State: Raritan Bay Slag Site/NJ	Hattiesburg MS 39402	4	
Project Leader: Dan Gaughan	(601) 264-2854		
Action: Integrated Assessment (IA)			
Sampling Co: WESTON - RST 2			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5K45	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED170	S: 09-04-22 13:25		--
MB5K46	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED171	S: 09-04-22 13:34		--
MB5K47	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED172	S: 09-04-22 13:35		--
MB5K48	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED173	S: 09-04-22 13:40		Field Duplicate
MB5K49	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED174	S: 09-04-22 13:40		--
MB5K50	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED175	S: 09-04-22 13:45		--
MB5K51	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED176	S: 09-04-22 13:52		--
MB5K52	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED177	S: 09-04-22 14:00		--
MB5K53	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED178	S: 09-04-22 14:11		--
MB5K54	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED179	S: 09-04-22 14:17		--
MB5K55	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED180	S: 09-04-22 13:57		--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MB5K46	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: In (soil) = TAL Inorganics (soil)	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 2-344931618-042209-0010

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EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-22
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8319
CERCLIS ID:	NJN000206276	**Shipped to:**	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	4/22/09 1740	FedEx 4/22/09 1740
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Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5K56	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED181	S: 09-04-22 13:49		--
MB5K57	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED182	S: 09-04-22 13:45		--
MB5K58	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED183	S: 09-04-22 13:40		--
MB5K59	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED184	S: 09-04-22 13:30		--
MB5K60	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED185	S: 09-04-22 13:29		--
MB5K61	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED186	S: 09-04-22 13:20		--
MB5K62	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED187	S: 09-04-22 13:17		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** MB5K46	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: In (soil) = TAL Inorganics (soil)	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?**

TR Number: 2-344931618-042209-0010

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-22
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8319
CERCLIS ID:	NJN000206276	**Shipped to:**	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	4/22/22 1740	FedEx	4/22/22 1740
2			
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Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5K63	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED188	S: 09-04-22 13:10		--
MB5K64	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED189	S: 09-04-22 13:09		--
MB5K65	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED190	S: 09-04-22 13:02		--
MB5K66	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED191	S: 09-04-22 13:02		--
MB5K67	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED192	S: 09-04-22 12:50		--
MB5K68	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED193	S: 09-04-22 12:55		Field Duplicate
MB5K69	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED194	S: 09-04-22 12:49		--
MB5K71	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED196	S: 09-04-22 12:37		--
MB5K72	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED197	S: 09-04-22 12:33		--
MB5K73	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED198	S: 09-04-22 12:31		--
MB5K74	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED199	S: 09-04-22 12:20		--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	MB5K66		
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?**

DTAL = Dissolved Metals (aqueous), In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042209-0011

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EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-22
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8319
CERCLIS ID:	NJN000206276	**Shipped to:**	Bonner Analytical Testing Company 2703 Oak Grove Rd Hattiesburg MS 39402 (601) 264-2854
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	4/22/09 1740	FedEx	4/22/09 1740
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Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5K81	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED206	S: 09-04-22 14:15		--
MB5KB0	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW37	S: 09-04-22 14:10		--
MB5KB1	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW37D	S: 09-04-22 14:12		--
MB5KB2	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW38	S: 09-04-22 13:49		--
MB5KB3	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW38D	S: 09-04-22 13:51		--
MB5KB4	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW39	S: 09-04-22 13:28		--
MB5KB5	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW39D	S: 09-04-22 13:30		--
MB5KB6	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW40	S: 09-04-22 13:08		--
MB5KB7	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW40D	S: 09-04-22 13:10		--
MB5KB8	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW41	S: 09-04-22 12:46		--
MB5KB9	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW41D	S: 09-04-22 12:48		--

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** MB5K66	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

DTAL = Dissolved Metals (aqueous), In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042209-0011

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FedEx Express **US Airbill**

FedEx Tracking Number 8627 4314 8319

28 15 18

Form ID No. 0200 **Sender's Copy**

1 From *Please print and press hard.*

Date 4/22/08 Sender's FedEx Account Number 396 778 823

Sender's Name Scott Snyder Phone (732) 417-5800

Company Weston Solutions, Inc.

Address 205 Campus Dr. Dept./Floor/Suite/Room

City Edison State NJ ZIP 08837

2 Your Internal Billing Reference First 24 characters will appear on invoice. 20401 032.011.2206

3 To

Recipient's Name Beth Whitehead Phone (601) 264-2854

Company Banner Analytical

Recipient's Address 2703 Oak Grove Rd

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Hattiesburg State MS ZIP 39402

4a Express Package Service *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other * Declared value limit $500.

6 Special Handling Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday at FedEx Location** NOT Available for FedEx First Overnight.
- [ ] **HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [X] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. 396 778 823 Exp. Date

Total Packages	Total Weight	Total Declared Value†
5		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-23
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8320
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	4/23/09 1830	FedEx 4/23/09 1830
2		
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4		

Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MB5JX7	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED102	S: 09-04-23	11:14		--
MB5JX8	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED103	S: 09-04-23	11:06		--
MB5JX9	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED104	S: 09-04-23	11:00		--
MB5JY0	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED105	S: 09-04-23	10:51		--
MB5JY1	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED106	S: 09-04-23	11:11		--
MB5K70	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED195	S: 09-04-23	11:43		--
MB5K75	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED200	S: 09-04-23	10:59		--
MB5K76	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED201	S: 09-04-23	11:12		--
MB5K77	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED202	S: 09-04-23	11:23		--
MB5K78	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED203	S: 09-04-23	11:29		--
MB5K79	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED204	S: 09-04-23	11:18		--

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: In (soil) = TAL Inorganics (soil)	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 2-344931618-042309-0012

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EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-23
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8320
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	4/23/23 1830	FedEx	4/24/23 1830
2			
3			
4			

Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5K80	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED205	S: 09-04-23 11:06		--

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: In (soil) = TAL Inorganics (soil)	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 2-344931618-042309-0012

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-23
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8320
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	4/23/23 1830	FedEx	4/23/23 1830
2			
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INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MB5JW6	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED91	S: 09-04-23	11:45		--
MB5JX2	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED97	S: 09-04-23	11:55		--
MB5JX3	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED98	S: 09-04-23	11:46		--
MB5JX5	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED100	S: 09-04-23	11:39		--
MB5JX6	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED101	S: 09-04-23	11:33		--
MB5JY2	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED107	S: 09-04-23	11:19		--
MB5JY3	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED108	S: 09-04-23	11:26		--
MB5JY4	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED109	S: 09-04-23	11:21		--
MB5JY5	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED110	S: 09-04-23	11:37		--
MB5JY6	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED111	S: 09-04-23	11:35		--
MB5JY7	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED112	S: 09-04-23	11:46		--

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:** MB5JW6, MB5JY6	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key: In (soil) = TAL Inorganics (soil)	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

TR Number: 2-344931618-042309-0013

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	Date Shipped:	09-04-23
Project Code:		Carrier Name:	FedEx
Account Code:		Airbill:	8627 4314 8320
CERCLIS ID:	NJN000206276	Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	9/23/09 1830	FedEx	9/23/09 1830
2			
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INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	QC Type
MB5JY8	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED113	S: 09-04-23	11:49		Field Duplicate
MB5JY9	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED114	S: 09-04-23	12:38		--
MB5JZ0	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED115	S: 09-04-23	12:05		--
MB5JZ1	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED116	S: 09-04-23	12:06		--
MB5JZ2	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED117	S: 09-04-23	12:12		--
MB5JZ3	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED118	S: 09-04-23	12:20		--
MB5JZ4	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED119	S: 09-04-23	12:17		--

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	MB5JW6, MB5JY6		
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?**
In (soil) = TAL Inorganics (soil)			

TR Number: **2-344931618-042309-0013**

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-23
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8320
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	9/23/07 1830	FedEx 9/23/07 1830
2		
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4		

Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB56S5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S212A	S: 09-04-23 15:00		--
MB56S6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S212B	S: 09-04-23 15:10		--
MB56S7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S212C	S: 09-04-23 15:25		--
MB56S8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S212D	S: 09-04-23 15:30		--
MB56S9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S213A	S: 09-04-~~10~~ 23 16:02		--
MB5JX1	Sediment/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-SED96	S: 09-04-23 12:15		--
MB5KD1	Field QC/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-RIN08	S: 09-04-23 13:30		Rinsate
MB5KD3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S207A	S: 09-04-23 13:47		--
MB5KD4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S207B	S: 09-04-23 13:54		--
MB5KD5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S207C	S: 09-04-23 13:59		--

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	MB5KD4		
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042309-0014

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region: 2	**Date Shipped:** 09-04-23	**Chain of Custody Record**	**Sampler Signature:**
Project Code:	**Carrier Name:** FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:	**Airbill:** 8627 4314 8320	1 4/23/09 1830	FedEx 4/23/09 1830
CERCLIS ID: NJN000206276	**Shipped to:** Liberty Analytical Corporation	2	
Spill ID: A205	501 Madison Avenue	3	
Site Name/State: Raritan Bay Slag Site/NJ	Cary NC 27513	4	
Project Leader: Dan Gaughan	(919) 379-4100		
Action: Integrated Assessment (IA)			
Sampling Co: WESTON - RST 2			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5KD6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S207D	S: 09-04-23 14:06		--
MB5KD7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S207E	S: 09-04-23 13:52		Field Duplicate
MB5KD8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S208A	S: 09-04-23 14:16		--
MB5KD9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S208B	S: 09-04-23 14:20		--
MB5KE0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S208C	S: 09-04-23 14:26		--
MB5KE1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S208D	S: 09-04-23 14:32		--

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:** MB5KD4	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____

In (soil) = TAL Inorganics (soil), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042309-0014

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-23
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8320
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	4/23/09 1830	FedEx	4/25/09 1830
2			
3			
4			

Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB56T0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S213B	S: 09-04-23 16:05		--
MB56T1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S213C	S: 09-04-23 16:10		--
MB56T2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S213D	S: 09-04-23 16:12		--
MB5KE2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S209A	S: 09-04-23 14:44		--
MB5KE3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S209B	S: 09-04-23 14:50		--
MB5KE4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S209C	S: 09-04-23 14:54		--
MB5KE5	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S209D	S: 09-04-23 14:59		--
MB5KE6	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S210A	S: 09-04-23 15:32		--
MB5KE7	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S210B	S: 09-04-23 15:40		--
MB5KE8	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S210C	S: 09-04-23 15:49		--

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:** MB5KF&G	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?**

In (soil) = TAL Inorganics (soil)

TR Number: 2-344931618-042309-0015

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EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-23	**Chain of Custody Record**	**Sampler Signature:**
Project Code:		**Carrier Name:**	FedEx	**Relinquished By (Date / Time)**	**Received By (Date / Time)**
Account Code:		**Airbill:**	8627 4314 8320	1 [signature] 9/23/09 1830	FedEx 9/23/09 1830
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
Spill ID:	A205			3	
Site Name/State:	Raritan Bay Slag Site/NJ			4	
Project Leader:	Dan Gaughan				
Action:	Integrated Assessment (IA)				
Sampling Co:	WESTON - RST 2				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5KE9	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S210D	S: 09-04-23 16:00		--
MB5KF0	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S211A	S: 09-04-23 16:09		--
MB5KF1	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S211B	S: 09-04-23 16:16		--
MB5KF2	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S211C	S: 09-04-23 16:18		--
MB5KF3	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S211D	S: 09-04-23 16:21		--
MB5KF4	Surface Soil (0-24")/ Scott Snyder	L/G	In (soil) (7)	(Ice Only) (1)	RBS-S211E	S: 09-04-23 16:14		Field Duplicate

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:** MB5KF0 (3)	**Additional Sampler Signature(s):** [signature]	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?** _____
In (soil) = TAL Inorganics (soil)			

TR Number: **2-344931618-042309-0015**

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 38476 **R**
DAS No:

Region:	2	**Date Shipped:**	09-04-23
Project Code:		**Carrier Name:**	FedEx
Account Code:		**Airbill:**	8627 4314 8320
CERCLIS ID:	NJN000206276	**Shipped to:**	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100
Spill ID:	A205		
Site Name/State:	Raritan Bay Slag Site/NJ		
Project Leader:	Dan Gaughan		
Action:	Integrated Assessment (IA)		
Sampling Co:	WESTON - RST 2		

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	4/23/09 1830	FedEx 4/23/09 1830
2		
3		
4		

Sampler Signature:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MB5K86	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW25	S: 09-04-23 13:38		--
MB5K87	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW25D	S: 09-04-23 13:40		--
MB5K88	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW26	S: 09-04-23 13:44		--
MB5K89	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW26D	S: 09-04-23 13:46		--
MB5K90	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW27	S: 09-04-23 13:55		Field Duplicate
MB5K91	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW27D	S: 09-04-23 13:57		Field Duplicate
MB5K92	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW28	S: 09-04-23 14:00		--
MB5K93	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW28D	S: 09-04-23 14:02		--
MB5K94	Surface Water/ Scott Snyder	L/G	Inorg (aq) (7)	(HNO3) (1)	RBS-SW29	S: 09-04-23 14:10		--
MB5K95	Surface Water/ Scott Snyder	L/G	DTAL (7)	(HNO3) (1)	RBS-SW29D	S: 09-04-23 14:12		--

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:** MB5K86, MB5K87	**Additional Sampler Signature(s):**	**Chain of Custody Seal Number:**
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G	**Shipment Iced?**

DTAL = Dissolved Metals (aqueous), Inorg (aq) = TAL Inorganics (aqueous)

TR Number: 2-344931618-042309-0016

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Kristin VonMoll, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4235; Fax 703/818-4602

FedEx Express **US Airbill**

FedEx Tracking Number: 8627 4314 8320

Form ID No. 0200 — **Sender's Copy**

1 From *Please print and press hard.*

Date 4/23/09 Sender's FedEx Account Number 3967776-823

Sender's Name Scott Snyder Phone (732) 417-5500

Company Weston Solutions, Inc

Address 205 Campus Dr. Dept./Floor/Suite/Room

City Edison State NJ ZIP 08837

2 Your Internal Billing Reference First 24 characters will appear on invoice. 20401.035.011.2206

3 To

Recipient's Name Joan Purdie Phone (919) 379-4080

Company Liberty Analytical

Recipient's Address 501 Madison Ave

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Cary State NC ZIP 27513

4a Express Package Service — *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation. ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday at FedEx Location** NOT Available for FedEx First Overnight.
- [ ] **HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [X] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. 3967776-823 Exp. Date

Total Packages	Total Weight	Total Declared Value†
		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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APPENDIX C

TABLES

Table 1
Inorganic Analytical Results-Soil Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-S99		RBS-S100		RBS-S101		RBS-S102		RBS-S103		RBS-S104		RBS-S105		RBS-S106		RBS-S107		RBS-S108		RBS-S109		RBS-S110		RBS-S111		RBS-S112		RBS-S113	
EPA Sample No.	MB5JH5		MB5JH6		MB5JH7		MB5JH8		MB5JH9		MB5JJ0		MB5JJ1		MB5JJ2		MB5JJ3		MB5JJ4		MB5JJ5		MB5JJ6		MB5JJ7		MB5JJ8		MB5JJ9	
Sample Depth	0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.	
Comment	MS/MSD																		Dup. of RBS-S107											
ALUMINUM	1250		1270		977		1180		856		1140		1040		1050		994		837		815		996		711		618		970	
ANTIMONY	6.2	U	6.1	U	6.2	U	6.3	U	6.1	U	6.1	U	6.1	U	6.1	U	6.2	U	6.2	U	6.2	U	6.2	U	6.2	U	6.2	U	6.2	U
ARSENIC	2		3.3		2.7		4.7		2.1		2.3		2.3		2.2		4.2		3.9		5		5.3		3.9		3.2		4.6	
BARIUM	20.6	UJ	20.2	UJ	20.7	UJ	20.8	UJ	20.2	UJ	20.3	UJ	20.2	UJ	20.2	J	20.6	UJ	20.8	J	20.7	UJ	20.8	UJ	20.6	UJ	20.5	UJ	20.5	UJ
BERYLLIUM	0.51	U	0.51	U	0.52	U	0.52	U	0.51	U	0.51	UJ	0.51	U	0.5	U	0.51	U	0.52	U	0.52	U	0.52	U	0.51	U	0.51	U	0.51	U
CADMIUM	0.51	U	0.51	U	0.52	U	0.52	U	0.51	U	0.51	U	0.51	U	0.5	U	0.029	J	0.015	J	0.023	J	0.52	U	0.51	U	0.51	U	0.51	U
CALCIUM	1750	J	506	UJ	973	J	521	UJ	506	J	329	J	485	J	907	J	2370	J	3760		2730		2710		4260		683	J	1690	J
CHROMIUM	4.1		10.3		7.9	J	8.8		7.1		5.9		5.3		7.1		13.2	J	8.4	J	7.2		13.5		7.2		4.8		10.1	
COBALT	1.2	J	1.2	J	0.97	J	1.1	J	0.94	J	1.1	J	0.95	J	0.97	J	0.57	J	0.5	J	0.45	J	0.6	J	0.36	J	0.41	J	0.49	J
COPPER	2.4	J	1.3	J	1.7	J	1.4	J	1.2	J	0.94	J	0.92	J	0.86	J	37.2		3.2	R	2.4	J	6.6		3	J	1.8	J	1.8	J
IRON	6700		13300		11500		22500		9600		6130		8230		7690		15100		12500		11200		16200		9960		9060		14300	
LEAD	2.1		2.6		2.8		3.6		3.7		2.7		3.2		2.7		17.9		18.5		22		24.4		19.1		17.8		33.4	
MAGNESIUM	650		464	J	369	J	509	J	349	J	558	J	498	J	474	J	192	J	174	J	187	J	357	J	170	J	164	J	211	J
MANGANESE	31.3		35		31.9		88.7		26.1		34.2		28		31.1		32.7		35.9		39		45.6		32.8		33.9		38.9	
NICKEL	2.3	J	4	J	1.4	J	1.9	J	1.7	J	1.9	J	2	J	1.7	J	1.4	J	1	J	0.79	J	1.1	J	0.59	J	0.64	J	1.2	J
POTASSIUM	514	UJ	506	UJ	517	UJ	521	UJ	506	UJ	663		523	J	575	J	514	UJ	520	UJ	516	UJ	519	UJ	515	UJ	513	UJ	514	UJ
SELENIUM	3.6	U	3.5	U	3.6	U	3.6	U	3.5	U	3.5	U	3.5	U	3.5	U	0.32	J	3.6	U	0.34	J	3.6	U	3.6	U	3.6	U	3.6	U
SILVER	1	U	1	U	1.2	J	1	UJ	1.3		1	U	1	U	1.2		1	UJ	1	UJ	1	UJ	1	U	1	UJ	1.4		1	UJ
SODIUM	514	U	506	UJ	517	U	521	UJ	506	U	507	U	506	U	504	U	514	U	520	U	516	U	519	U	515	U	513	U	514	U
THALLIUM	2.6	U	2.5	U	2.6	U	2.6	U	2.5	U	2.5	U	2.5	U	2.5	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
VANADIUM	6.9		19		16.9		25.8		14.8		8		11.4		10.3		16.4		18.2		14.7		26.1		14.3		11.2		15	
ZINC	9.3	J	10.5	J	8.8	J	12.7	J	7.3	J	9.1	J	8	J	8.9	J	35	J	21.8	J	17.7	J	27.9	J	14.4	J	15.4	J	23.6	J

All results in milligrams per kilogram (mg/kg)

U - Analyte not detected

J - Estimated concentration

UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met

R - Unusable value

MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 1
Inorganic Analytical Results-Soil Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-S114		RBS-S115		RBS-S116		RBS-S117		RBS-S118		RBS-S119		RBS-S120		RBS-S121		RBS-S122		RBS-S123		RBS-S124		RBS-S125		RBS-S126		RBS-S127		RBS-S128	
EPA Sample No.	MB5JK0		MB5JK1		MB5JK2		MB5JK3		MB5JK4		MB5JK5		MB5JK6		MB5JK7		MB5JK8		MB5JK9		MB5JL0		MB5JL1		MB5JL2		MB5JL3		MB5JL4	
Sample Depth	0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.	
Comment											MS/MSD				Dup. of RBS-S120															
ALUMINUM	672		904		1130		818		562		474		1250	J	1000		1450	J	1020	J	1480	J	2270	J	956	J	2030	J	2990	J
ANTIMONY	6.3	U	6.2	U	6.1	U	6.2	U	6.2	U	6.2	U	6.1	U	6.1	U	6.1	U	6.1	U	6.1	U	6.1	U	6.2	U	6.1	U	6.1	U
ARSENIC	3.1		3.1		5.3		7		2.5		1.6		5.3		4.1		7.5		4.3		6.9		9.3		6.1		9		16.5	
BARIUM	21.1	UJ	33.9	J	20.3	UJ	20.6	UJ	20.5	UJ	1.6	J	8.2	J	6.9	J	5.9	J	8.3	J	1.4	J	4.1	J	3.2	J	1.4	J	109	J
BERYLLIUM	0.53	U	0.51	U	0.51	U	0.51	U	0.51	U	0.078	J	0.33	J	0.3	J	0.48	J	0.33	J	0.5	UJ	0.78		0.35	J	0.56		0.59	
CADMIUM	0.53	U	0.51	U	0.51	U	0.51	U	0.51	U	0.52	U	0.51	U	0.51	U	0.51	U	0.51	U	0.03	J	0.078	J	0.012	J	0.031	J	0.075	J
CALCIUM	782	J	1950	J	2840		1300	J	3060		256	J	540		564		850		1660		718		934		762		1990		3270	
CHROMIUM	6.5		6.7		6.3		9.3		4.2		3.9		12.7		11.6		13.3		9.9		12.7		19.7		10.5		30		27	
COBALT	0.42	J	0.45	J	0.6	J	0.5	J	0.35	J	0.29	J	0.76	J	0.87	J	1.1	J	0.49	J	0.68	J	0.97	J	0.42	J	0.69	J	1	J
COPPER	5.3		10.1		2.5	J	2.7		2.2	J	6.6		6.1		9.9		6.6		3.6		3.8		5.6		7.4		3.4		7.9	
IRON	8370		9310		14400		14300		6250		4940		18800		13500		24400		14700		22800		37900		15000		28300		48400	
LEAD	17.4		159		19.5		19.8		24.5		20.6		53.8		61		93.1		36.2		44.5		40.5		37		30		199	
MAGNESIUM	149	J	214	J	207	J	200	J	154	J	102	J	228	J	165	J	221	J	166	J	222	J	385	J	421	J	261	J	512	
MANGANESE	28.6		61.2		35.5		39.1		28.7		27.8		35.4		37.4		44.1		30.8		49.8		55.8		31		42		181	
NICKEL	0.66	J	0.87	J	0.99	J	0.61	J	0.64	J	0.68	J	1.9	J	2.6	J	1.9	J	1	J	1.2	J	2.7	J	0.91	J	1.9	J	1.7	J
POTASSIUM	527	UJ	514	UJ	507	UJ	515	UJ	514	UJ	517	UJ	510	U	512	U	510	U	508	U	512	U	511	U	513	U	506	U	509	U
SELENIUM	3.7	U	3.6	U	3.5	U	3.6	U	3.6	U	3.6	U	0.44	J	0.33	J	0.4	J	0.38	J	0.42	J	0.49	J	0.42	J	0.61	J	0.62	J
SILVER	1.1	U	1.1		1.2	J	1	UJ	1	U	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1.3	R	1	R	1	UJ	1	UJ	1	UJ
SODIUM	527	U	514	U	507	U	515	U	514	U	517	U	510	U	512	U	510	U	508	U	512	U	511	U	513	U	509	U	509	U
THALLIUM	2.6	U	2.6	U	2.5	U	2.6	U	2.6	U	2.6	U	2.5	U	2.6	U	2.6	U	2.5	U	2.6	U	2.6	U	2.6	U	2.5	U	2.5	U
VANADIUM	10.2		11.6		19.3		15.4		9.5		7	J	24.4		18.5		28.1		18		30		37		17.1		43.1		102	
ZINC	14.9	J	43	J	23.3	J	18.5	J	14.6	J	14.5		31.7	J	66.3	J	32.7		25		29.1		37.5		23.1		33.8		140	

All results in milligrams per kilogram (mg/kg)
U - Analyte not detected
J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 1
Inorganic Analytical Results-Soil Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-S129		RBS-S130		RBS-S131		RBS-S132		RBS-S133		RBS-S134		RBS-S135		RBS-S136		RBS-S137		RBS-S138		RBS-S139		RBS-S140		RBS-S141		RBS-S142		RBS-S143	
EPA Sample No.	MB5JL5		MB5JL6		MB5JL7		MB5JL8		MB5JL9		MB5JM0		MB5JM1		MB5JM2		MB5JM3		MB5JM4		MB5JM5		MB5JM6		MB5JM7		MB5JM8		MB5JM9	
Sample Depth	0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.	
Comment																					MS/MSD									
ALUMINUM	1610	J	1180	J	664	J	1050	J	806	J	1950	J	1130	J	1300	J	1960	J	1820	J	2910	J	1180	J	1400	J	1710	J	1730	J
ANTIMONY	6.1	U	6.2	U	6.3	U	6.1	U	6.2	U	6.1	U	6.3	U	6.2	U	0.36	J	6.4	U	6.3	UJ	6.3	UJ	6.1	UJ	6.1	UJ	6.3	UJ
ARSENIC	8.1		6.2		2.7		4.7		3.8		9.7		4.9		6.7		4.7		7.3		9.2	J	3.4	J	2.7	J	2.4	J	2.1	J
BARIUM	1.8	J	20.8	UJ	21	UJ	20.3	UJ	20.5	UJ	20.3	UJ	20.9	UJ	20.7	UJ	21.1	UJ	21.3	UJ	4.7	J	3	J	3.1	J	2.8	J	6.1	J
BERYLLIUM	0.53		0.52	U	0.52	U	0.51	U	0.51	U	0.75		0.52	U	0.52	U	0.53	U	0.53	U	0.52	U	0.52	U	0.51	U	0.51	U	0.53	U
CADMIUM	0.041	J	0.52	U	0.52	U	0.51	U	0.51	U	0.51	U	0.52	U	0.52	U	0.53	U	0.53	U	0.52	U	0.52	U	0.51	U	0.51	U	0.53	U
CALCIUM	7230		3320		124	J	775		566		434	J	308	J	444	J	307	J	18.6	J	524	U	522	U	1110		1830		915	
CHROMIUM	61.7		11.9		5.2		7.5		6.1		24.3		10.3		13.6		11.6		10.3		12.3	J	7.9	J	6.1	J	7.3	J	5.3	J
COBALT	0.57	J	0.62	J	0.47	J	0.56	J	0.52	J	1	J	0.53	J	0.72	J	0.81	J	0.7	J	0.74	J	0.4	J	1.2	J	1.3	J	1.1	J
COPPER	13.6		2.3	J	2.8		3.9		4.9		12		11.9		8.8		11		2	J	3.2		2.8		1.6	J	1	J	7.7	
IRON	37800		20600		6600		14500		10000		34600		15600		19100		13100		21700		32600		12400		7030		6670		7460	
LEAD	13.7		18.3		25.7		42.5		27.6		30		24.5		39.8		26.5		3		3.8		6.2		3.5		1.7		9.2	
MAGNESIUM	291	J	173	J	156	J	143	J	120	J	239	J	186	J	194	J	217	J	214	J	437	J	191	J	582		755		600	
MANGANESE	46.6		49.9		30.4		30.1		27.4		62.9		27.3		31.6		22.8		14.9		28.8		20.1		30.3		33.1		26.2	
NICKEL	0.7	J	1.2	J	0.89	J	1.3	J	1.1	J	1.8	J	1.5	J	1.8	J	1.4	J	0.084	J	0.52	J	0.41	J	2.3	J	2.7	J	2.6	J
POTASSIUM	506	U	520	U	525	U	508	U	513	U	509	U	524	U	517	U	528	U	720		1240		297	J	791		993		184	J
SELENIUM	0.89	J	0.31	J	3.7	U	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.7	U	0.38	J	0.76	J	0.32	J	0.39	J	3.6	U	3.7	U
SILVER	1	UJ	1.9	J	1	UJ	1	UJ	1	UJ	2.8	J	1.8	J	1.9	J	1.4	J	2.1	J	8.3	J	2.9	J	2.8	J	1.9	J	2.4	J
SODIUM	506	U	22.4	J	6.9	J	508	U	513	U	509	U	524	U	517	U	528	U	532	U	524	U	522	U	509	U	12	J	59.4	J
THALLIUM	2.5	U	2.6	U	2.6	U	2.5	U	2.6	U	2.5	U	2.6	U	2.6	U	2.6	U	2.7	U	2.6	U	2.6	U	2.5	U	2.6	U	2.6	U
VANADIUM	37.6		25		10.4		18.8		14.9		42.4		22		28.7		22.4		36.7		45		18.9		8.8		8.7		11.1	
ZINC	35.9		25.4		15.7		21.2		19.9		37.1		19.7		30		19.1		9.7		12.7	J	6.5	J	8.8	J	8.5	J	19.6	J

All results in milligrams per kilogram (mg/kg)
U - Analyte not detected
J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 1
Inorganic Analytical Results-Soil Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-S144		RBS-S145		RBS-S148		RBS-S149		RBS-S150		RBS-S151		RBS-S152		RBS-S153		RBS-S154		RBS-S155		RBS-S156		RBS-S157		RBS-S158		RBS-S159		RBS-S160	
EPA Sample No.	MB5JN0		MB5JN1		MB5JN4		MB5JN5		MB5JN6		MB5JN7		MB5JN8		MB5JN9		MB5JP0		MB5JP1		MB5JP2		MB5JP3		MB5JP4		MB5JP5		MB5JP6	
Sample Depth	0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.	
Comment			Dup. of RBS-S144																								MS/MSD			
ALUMINUM	1710	J	1150	J	1250		499		928		1080		932		795		1120		400		952		656		544		1000		1250	
ANTIMONY	0.23	J	1.3	J	25.2	J	9.1	J	21.1	J	14.9	J	9.5	J	9	J	11.4	J	7.1	UJ	18.4	J	25.6	J	6.4	J	53.9	J	6.5	UJ
ARSENIC	6.9	J	6	J	20.7	J	8.7	J	21.8	J	20.4	J	13.8	J	9.1	J	17	J	1.5	J	24.4	J	20.4	J	7.8	J	43.8	J	3	J
BARIUM	6.8	J	4.5	J	20.2	J	9	J	11.7	J	13.9	J	14.8	J	2.3	J	11	J	1.5	J	18.8	J	9.4	J	4.8	J	44.6		3.5	J
BERYLLIUM	0.52		0.51	U	0.61	U	0.53	U	0.57	U	0.53	U	0.52	U	0.53	U	0.52	U	0.59	U	0.52	U	0.52	U	0.52	U	0.53	U	0.55	U
CADMIUM	0.51	U	0.51	U	1.5	J	0.41	J	0.67	J	0.99	J	0.96	J	0.55	J	0.87	J	0.12	J	0.82	J	0.33	J	0.22	J	0.99	J	0.096	J
CALCIUM	2400	J	659	J	1280		532	U	570	U	1140		521	U	695		822		588	U	519	U	524	U	741		529	U	1400	
CHROMIUM	10.8	J	12.5	J	10.9		6.4		8.1		9.6		17.1		12		10.4		3.6		9.4		4.8		4.4		13.7		6.4	
COBALT	0.59	J	0.62	J	0.76	J	5.3	U	5.4	U	5.1	U	5.1	U	5.1	U	5.1	U	5.7	U	5.1	U	5	U	5.2	U	0.56	J	0.75	J
COPPER	5.8		8.7		31.4	J	10.8	J	10.4	J	15.1	J	7.1	J	5.7	J	11.4	J	2.3	J	14.2	J	12.1	J	6.2	J	43.4	J	3.7	J
IRON	22400	J	14500	J	27900		9750		15200		21400		20900		12400		20200		4040		18400		9820		7100		18900		4880	
LEAD	42.3		57.2		721		196		192		388		167		176		195		17.3		399		305		128		771		12.7	
MAGNESIUM	510	U	510	U	424	J	174	J	277	J	297	J	216	J	279	J	324	J	93.4	J	192	J	147	J	169	J	185	J	636	
MANGANESE	27.4		31.3		103		35.8		47.2		60.5		77.8		30.9		65.3		27.5		57.3		42.2		30		74.1		44.5	
NICKEL	1.6	J	1.5	J	6.1	J	5.1	J	4.6	UJ	4.3	UJ	4.2	UJ	4.3	UJ	4.2	UJ	4.7	UJ	4.1	UJ	1.6	J	1.5	J	6.7	J	3.1	J
POTASSIUM	139	J	143	J	171	J	121	J	128	J	131	J	105	J	110	J	142	J	50.3	J	148	J	524	U	522	U	161	J	565	
SELENIUM	0.46	J	3.6	U	2.4	J	0.73	J	1.1	J	1.6	J	1.7	J	0.7	J	1.3	J	4	U	1.4	J	0.62	J	0.41	J	1.6	J	0.32	J
SILVER	4.9	J	3.2	J	1.2	U	1.1	U	1.1	U	1	U	1	U	1	U	1	U	1.1	U	1	U	1	U	1	U	1.1	U	1.1	U
SODIUM	22.4	J	510	U	612	U	532	U	570	U	532	U	521	U	532	U	522	U	588	U	519	U	524	U	522	U	529	U	545	U
THALLIUM	2.6	U	2.6	U	3	UJ	2.7	UJ	2.7	UJ	2.5	UJ	2.6	UJ	2.6	UJ	2.5	UJ	2.9	UJ	2.6	UJ	2.5	UJ	2.6	UJ	2.6	UJ	2.7	UJ
VANADIUM	20		19.1		33.6		8.2		18.5		20.8		25		15.8		22.1		6.7		25.6		14		10.1		16.9		6.2	
ZINC	25.6	J	39.7	J	64.9		19.8		29.6		41.2		31		23.3		35		12		41.5		26.6		20		64.8		11.2	

All results in milligrams per kilogram (mg/kg)
U - Analyte not detected
J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 1
Inorganic Analytical Results-Soil Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-S161		RBS-S162		RBS-S163		RBS-S164		RBS-S165		RBS-S166		RBS-S167		RBS-S168		RBS-S169		RBS-S170		RBS-S171		RBS-S172		RBS-S173		RBS-S174		RBS-S175	
EPA Sample No.	MB5JP7		MB5JP8		MB5JP9		MB5JQ0		MB5JQ1		MB5JQ2		MB5JQ3		MB5JQ4		MB5JQ5		MB5JQ6		MB5JQ7		MB5JQ8		MB5JQ9		MB5JR0		MB5JR1	
Sample Depth	0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.	
Comment	Dup. of RBS-S160																													
ALUMINUM	1460		1910		199		160		627		1160		1990		1140		774		597		528		758		835		254		1280	
ANTIMONY	6.5	UJ	6.5	UJ	7.2	U	6.7	U	6.3	U	6.3	U	6.4	U	6.3	U	6.5	U	6.3	U	6.3	U	6.4	U	6.4	U	6.7	U	6.7	U
ARSENIC	2.6	J	6.4	J	0.91	J	0.86	J	3.9	J	10	J	11.4	J	5.4	J	2.9	J	2.2	J	3	J	3.7	J	3.8	J	1.7	J	6.9	J
BARIUM	5	J	3.2	J	24.1	UJ	22.3	UJ	21	UJ	21	UJ	21.2	UJ	20.9	UJ	21.6	UJ	21.2	UJ	21.1	UJ	21.3	UJ	21.4	UJ	22.2	UJ	22.2	U
BERYLLIUM	0.54	U	0.54	U	0.6	U	0.56	U	0.52	U	0.52	U	0.53	U	0.52	U	0.54	U	0.53	U	0.051	J	0.075	J	0.11	J	0.55	U	0.34	J
CADMIUM	0.12	J	0.15	J	0.6	U	0.56	U	0.52	U	0.52	U	0.53	U	0.52	U	0.54	U	0.53	U	0.53	U	0.53	U	0.53	U	0.55	U	0.55	U
CALCIUM	1610		1990		514	J	59.1	J	215	J	96	J	1060		104	J	549		534		1500		76.2	J	172	J	87.2	J	147	J
CHROMIUM	6.7		6.4		4.2		2		5.7		12.8		29.7		10.3		5.6		7.7		4.6		6.3		5.6		2.5		14.5	
COBALT	1	J	1	J	6	U	5.6	U	5.2	U	5.2	U	5.3	U	5.2	U	5.4	U	5.3	U	5.3	U	5.3	U	5.3	U	5.5	U	5.5	U
COPPER	4.4	J	58.9	J	4.3		0.46	J	2.8		1.8	J	5		2.8		1.9	J	1.3	J	2	J	2.3	J	5.3		0.96	J	2.7	J
IRON	5000		5660		1800	J	2170	J	10600	J	25900	J	45000	J	23700	J	15000	J	9860	J	8320	J	13900	J	11400	J	4210	J	22500	J
LEAD	10.1		27.8		1.7	J	1.8	J	3.6	J	4.9	J	7.8	J	6.4	J	3.7	J	5.4	J	11.8	J	4.1	J	3.9	J	3.3	J	5.5	J
MAGNESIUM	646		639		604	U	558	U	524	U	525	U	530	U	522	U	541	U	529	U	145	J	179	J	166	J	109	J	266	J
MANGANESE	37.8		33.3		11	J	9.3	J	25.5	J	32.3	J	67	J	41.5	J	24	J	18.4	J	19.1	J	26.2	J	19.1	J	8.9	J	35.6	J
NICKEL	3	J	3.4	J	0.15	J	0.074	J	0.49	J	1	J	2.6	J	0.73	J	0.23	J	0.47	J	0.38	J	0.65	J	0.42	J	0.17	J	0.98	J
POTASSIUM	626		657		604	U	558	U	524	U	525	U	530	U	522	U	541	U	529	U	528	U	532	U	535	U	554	U	555	U
SELENIUM	0.31	J	0.4	J	4.2	U	3.9	U	3.7	U	0.64	J	0.41	J	0.36	J	0.54	J	3.7	U	3.7	U	3.7	U	3.7	U	3.9	U	0.43	J
SILVER	1	U	1	U	1.2	UJ	1.1	UJ	2.1	J	5.3	J	9.2	J	4.8	J	3	J	2	J	1.7	J	2.8	J	2.3	J	0.89	J	4.6	J
SODIUM	538	U	539	U	971		558	U	524	U	525	U	530	U	522	U	541	U	529	U	528	U	532	U	535	U	554	U	555	U
THALLIUM	2.6	UJ	2.6	UJ	3	U	2.8	U	2.6	U	2.6	U	2.6	U	2.6	U	2.7	U	2.6	U	2.6	U	2.7	U	2.7	U	2.8	U	2.8	U
VANADIUM	6.2		7.6		3.1	J	3.1	J	13.5		22.4		47.4		24.6		12.1		10.6		13.6		17.9		11.8		4.2	J	24.1	
ZINC	12.6		10.9		5.1	J	4.3	J	17.7		21.3		52.5		28.7		16.9		14.7		13.4		18.9		14.2		7		25.7	

All results in milligrams per kilogram (mg/kg)
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UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 1
Inorganic Analytical Results-Soil Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-S176		RBS-S177		RBS-S178		RBS-S179		RBS-S180		RBS-S181		RBS-S182		RBS-S183		RBS-S184		RBS-S185		RBS-S186		RBS-S187		RBS-S188		RBS-S189		RBS-S190	
EPA Sample No.	MB5JR2		MB5JR3		MB5JR4		MB5JR5		MB5JR6		MB5JS0		MB5JS1		MB5JS2		MB5JS3		MB5JS4		MB5JS5		MB5JS6		MB5JS7		MB5JS8		MB5JS9	
Sample Depth	0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.	
Comment							MS/MSD				Dup. of RBS-S180																			
ALUMINUM	216		651		274		1030		823		822		705		220		255		234		263		288		462		271		293	
ANTIMONY	6.5	U	6.4	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U
ARSENIC	1.2	J	4.3	J	1.9	J	5.5	J	2.8	R	7.7	J	3.3	J	1.1		1.1		1.2		1.3		1.6		2.1		1.2		1.1	
BARIUM	21.7	UJ	21.5	UJ	21	UJ	20.9	UJ	20.8	UJ	20.9	UJ	21	UJ	21.1	U	20.9	U	21	U	20.8	U	20.9	U	21	U	20.9	U	20.9	U
BERYLLIUM	0.54	U	0.54	U	0.53	U	0.52	U	0.52	U	0.52	U	0.53	U	0.032	J	0.029	J	0.024	J	0.034	J	0.031	J	0.064	J	0.031	J	0.035	J
CADMIUM	0.54	U	0.54	U	0.53	U	0.52	U	0.52	U	0.52	U	0.53	U	0.53	U	0.52	U	0.52	U	0.52	U	0.52	U	0.53	U	0.52	U	0.52	U
CALCIUM	50	J	676		53.9	J	210	J	2370	J	714	J	1600		45.3	J	85.6	J	53	J	79.6	J	79.3	J	187	J	113	J	78.2	J
CHROMIUM	3.1		10.6		3		7.8		10.8		10.6		10		1.9		3		3.5		3.7		2.9		4.2		4.1		5.5	
COBALT	5.4	U	0.66	J	0.22	J	2	J	0.35	J	1.1	J	0.38	J	0.15	J	0.16	J	0.14	J	0.17	J	0.17	J	0.31	J	0.16	J	0.21	J
COPPER	0.58	J	35.8		1.6	J	2.4	J	1.4	J	1.9	J	3.6		0.75	J	2.8		1	J	2.4	J	0.92	J	1.5	J	3.9		3	
IRON	3050	J	12300	J	4340	J	20700	J	12000	J	22100	J	11100	J	2550		2870		3000		3560		3870		7010		3360		4150	
LEAD	2.8	J	4.6	J	3.6	J	5.8	J	3.7	J	4.9	J	7	J	2.7		3.1		2.8		4.8		3.8		3.6		4		11.8	
MAGNESIUM	86.5	J	176	J	67.8	J	211	J	159	J	188	J	184	J	43.2	J	52.6	J	42.3	J	53.6	J	78.2	J	86.1	J	53.4	J	53	J
MANGANESE	10.5	J	36.4	J	13.4	J	56.3	J	22.6	J	54	J	33.4	J	24.6		20		19.5		18.5		19.2		21.6		14.7		19	
NICKEL	0.17	J	0.97	J	0.53	J	2	J	0.78	J	1.6	J	0.61	J	0.32	J	0.33	J	0.35	J	0.33	J	0.27	J	0.41	J	0.28	J	0.44	J
POTASSIUM	542	U	537	U	525	U	524	U	521	U	522	U	526	U	34.2	J	35.9	J	33.7	J	40.6	J	41.9	J	70.9	J	29.5	J	36.9	J
SELENIUM	3.8	U	0.38	J	3.7	U	0.36	J	3.6	U	0.39	J	3.7	U	3.7	U	3.7	U	3.7	U	3.6	U	3.7	U	3.7	U	3.7	U	3.7	U
SILVER	0.6	J	2.5	J	0.81	J	4.2	J	2.4	J	4.6	J	2.3	J	1.1	U	1	U	1	U	1	U	1	U	0.68	J	1	U	1	U
SODIUM	542	U	537	U	525	U	524	U	521	U	522	U	526	U	527	U	524	U	525	U	521	U	524	U	9.9	J	522	U	523	U
THALLIUM	2.7	U	2.7	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
VANADIUM	4.4	J	12.3		5.1	J	15		16.9	R	43.7		12.9		4	J	4.2	J	4.4	J	5.7		5.7		9.6		4.9	J	8.7	
ZINC	6	J	18.7		10.1		27.6		14.7		23.2		20.5		6.3	R	7.1	R	6.8	R	9.1	R	8.9	R	13	R	7.4	R	9	R

All results in milligrams per kilogram (mg/kg)
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J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
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MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 1
Inorganic Analytical Results-Soil Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-S191		RBS-S192		RBS-S193		RBS-S194		RBS-S195		RBS-S196		RBS-S197		RBS-S198		RBS-S199		RBS-S200		RBS-S201		RBS-S202		RBS-S203		RBS-S204	
EPA Sample No.	MB5JT0		MB5JT1		MB5JT2		MB5JT3		MB5JT4		MB5JT5		MB5JT6		MB5JT7		MB5JT8		MB5JT9		MB5JW0		MB5JW1		MB5JW2		MB5JW3	
Sample Depth	0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.		0-2 in.	
Comment															MS/MSD				Dup. of RBS-S199									
ALUMINUM	318		322		291		357		199		340		178		189		179		184		165		381		1120		677	
ANTIMONY	6.3	U	6.3	U	6.3	U	6.2	U	6.2	U	6.2	U	6.4	U	6.3	U	6.3	U	6.2	U	6.2	U	6.3	U	6.4	U	6.4	U
ARSENIC	1.4		1.6		1.3		1.6		0.83	J	1.6		0.87	J	0.98	J	0.69	J	0.9	J	0.71	J	1.7		6.5	J	3.8	J
BARIUM	21	U	21.1	U	21.1	U	20.7	U	20.7	U	20.6	U	21.3	U	21	U	20.9	U	20.8	U	20.6	U	20.9	U	21.3	UJ	21.3	UJ
BERYLLIUM	0.038	J	0.066	J	0.041	J	0.044	J	0.026	J	0.039	J	0.53	U	0.52	U	0.02	J	0.018	J	0.52	U	0.052	J	0.53	U	0.53	U
CADMIUM	0.53	U	0.53	U	0.53	U	0.52	U	0.52	U	0.52	U	0.53	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.53	U	0.53	U
CALCIUM	160	J	41.4	J	52.9	J	98.7	J	54.1	J	207	J	39.6	J	25.3	J	22.5	J	25.7	J	27.1	J	98.1	J	956		533	U
CHROMIUM	3.3		5.1		4.6		3.7		2.7		5.3		1.6		1.8		1.4		1.7		1.3		4.7		14.6	J	7.4	J
COBALT	5.3	U	5.3	U	5.3	U	5.2	U	5.2	J	5.2	U	5.3	U	5.2	U	5.2	J	5.2	U	5.2	U	5.2	J	5.3	U	5.3	U
COPPER	1.8	J	5.2		1.2	J	1.2	J	0.64	J	6.9		1.1	J	0.58	J	0.49	J	0.56	J	0.51	J	1.9	J	6.3		2.1	J
IRON	3990		4570		3840		4720		2370		3930		2080		2050		1900		2040		1670		5370		23900	J	10500	J
LEAD	4.8		28.9		8.9		3.6		5.2		3		2.2		2.1		2.5		2.1		2		3.5		17.5		5.9	
MAGNESIUM	60.9	J	57.4	J	49.7	J	56.2	J	31.6	J	59.4	J	30.1	J	22.8	J	26.8	J	27.8	J	30.6	J	71.9	J	276	J	151	J
MANGANESE	16.4		18.2		19		18.5		13.6		14.5		11.6		12.7		11		11.3		9.4		18		60.3	J	25.8	J
NICKEL	0.24	J	0.65	J	0.36	J	0.3	J	0.16	J	0.3	J	0.13	J	0.15	J	0.16	J	0.15	J	0.12	J	0.2	J	1.8	J	0.73	J
POTASSIUM	46.5	J	27.8	J	41.8	J	45.4	J	21.1	J	32.3	J	22.3	J	20.9	J	18	J	22	J	12.7	J	43.6	J	534	U	533	U
SELENIUM	3.7	U	0.36	J	3.7	U	3.6	U	3.6	U	3.6	U	3.7	U	3.7	U	3.7	U	0.38	J	3.6	U	0.42	J	0.44	J	3.7	U
SILVER	1.1	U	1.1	U	1.1	U	1	U	1	U	1	U	1.1	U	1	U	1	U	1	U	1	U	0.48	J	2.7	J	1.2	J
SODIUM	10.9	J	527	U	527	U	517	U	517	U	515	U	532	U	524	U	522	U	521	U	33.5	J	6.4	J	534	U	533	U
THALLIUM	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.7	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.7	U	2.7	U
VANADIUM	6.2		8.9		7.8		7.2		4.7	J	5.4		3.3	J	3.5	J	3.4	J	3.2	J	2.8	J	7.4		31.4	J	12.6	J
ZINC	8.8	R	14.7	R	9.2	R	8.8	R	5.2	R	8.1	R	4.5	R	5	R	4.7	R	4.5	R	4.2	R	9.1	R	33	J	17.3	J

All results in milligrams per kilogram (mg/kg)
U - Analyte not detected
J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 2
Inorganic Analytical Results-Soil Samples at Depth
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-S207A		RBS-S207B		RBS-S207C		RBS-S207D		RBS-S207E		RBS-S208A		RBS-S208B		RBS-S208C		RBS-S208D		RBS-S209A		RBS-S209B		RBS-S209C		RBS-S209D		RBS-S210A		RBS-S210B	
EPA Sample No.	MB5KD3		MB5KD4		MB5KD5		MB5KD6		MB5KD7		MB5KD8		MB5KD9		MB5KE0		MB5KE1		MB5KE2		MB5KE3		MB5KE4		MB5KE5		MB5KE6		MB5KE7	
Sample Depth	0-2 in.		6-12 in.		12-18 in.		18-24 in.		0-2 in.		0-2 in.		6-12 in.		12-18 in.		18-24 in.		0-2 in.		6-12 in.		12-18 in.		18-24 in.		0-2 in.		6-12 in.	
Comment									Dup. of RBS-S207A																					
ALUMINUM	1090		1160		1390		1480		1910		899		846		1040		598		639		687		602		434		790		1200	
ANTIMONY	0.22	J	0.96	J	0.63	J	0.54	J	0.96	J	0.23	J	0.75	J	0.35	J	0.25	J	0.32	J	0.2	J	0.28	J	7.5	U	0.7	J	1.2	J
ARSENIC	2.9	J	6.6	J	7.6	J	5.7	J	12.1	J	1.4	J	2.1	J	2.1	J	1.7	J	2	J	1.7	J	2.7	J	1.3	UJ	3.3	J	6.8	J
BARIUM	1.8	J	1.7	J	2.6	J	1.6	J	2.5	J	1.8	J	2	J	1.7	J	1.7	J	3.1	J	2.6	J	2.3	J	2.2	J	3.8	J	3.2	J
BERYLLIUM	0.17	J	0.29	J	0.2	J	0.22	J	0.29	J	0.14	J	0.2	J	0.49	J	0.4	J	0.34	J	0.26	J	0.25	J	0.15	J	0.23	J	0.62	
CADMIUM	0.52	U	0.53	U	0.53	U	0.55	U	0.51	U	0.52	U	0.52	U	0.61	U	0.6	U	0.53	U	0.56	U	0.57	U	0.62	U	0.5	U	0.52	U
CALCIUM	2470		432	J	95.5	J	91.8	J	1770		522	J	808		121	J	102	J	117	J	92.7	J	105	J	101	J	1410		712	
CHROMIUM	7.1		15.9		11.1		12.1		10.4		4.4		13.4		12.8		5		5.2		4.5		4.4		2.8		9.8		12.9	
COBALT	1.3	J	1	J	1.2	J	0.77	J	2.5	J	0.89	J	0.76	J	0.9	J	0.39	J	0.51	J	0.65	J	0.48	J	6.2	U	0.6	J	1.9	J
COPPER	2.1	J	4.2	J	7.1	J	6.5	J	4.3	J	1.2	J	3.8	J	4.6	J	2.9	J	3.7	J	1.6	J	2.1	J	1.1	J	7.5	J	10.6	J
IRON	9560		22400		15800		13200		34900		5360		7300		9350		6240		8350		6230		11200		3740		10100		24700	
LEAD	2.4		15		25.5		14.1		3.5		2.1		23.3		24.4		12		2.8		2.6		3		2.5		25		30.8	
MAGNESIUM	507	J	281	J	214	J	179	J	769		434	J	349	J	219	J	198	J	165	J	163	J	190	J	202	J	226	J	313	J
MANGANESE	35.7		29.3		74.2		61.8		59.6		28.1		24.5		31		14.2		10		7.3		7.4		4.6		38.3		69.7	
NICKEL	3.3	J	2.4	J	3.4	J	3.8	J	4.3		2	J	2.1	J	2.1	J	1	J	1	J	1.3	J	0.98	J	0.55	J	1.7	J	5.3	
POTASSIUM	291	J	189	J	96.2	J	90.7	J	279	J	312	J	203	J	88.4	J	92	J	88.6	J	95.7	J	99.6	J	98.1	J	87.6	J	104	J
SELENIUM	3.6	U	3.7	U	3.7	U	3.9	U	3.6	U	3.7	U	3.6	U	4.3	U	4.2	U	3.7	U	3.9	U	4	U	4.4	U	3.5	U	3.6	U
SILVER	1	U	1.1	U	1.1	U	1.1	U	1	U	1	U	1	U	1.2	U	1.2	U	1.1	U	1.1	U	1.1	U	1.2	U	1	U	1	U
SODIUM	303	J	308	J	396	J	517	J	319	J	290	J	432	J	1100		966		547		749		983		1280		454	J	420	J
THALLIUM	2.6	U	2.6	U	2.6	U	2.8	U	0.58	J	2.6	U	2.6	U	3	U	3	U	2.6	U	2.8	U	2.9	U	3.1	U	2.5	U	2.6	U
VANADIUM	13.2		28.3		20.3		23.6		48.1		6.6		8.9		11.9		12.6		13.6		10.7		12.3		6.8		14.2		25.1	
ZINC	9.1	J	18.5	J	29	J	28.8	J	21.1	J	6.6	J	10	J	13	J	8	J	6.3	J	4.9	J	4.8	J	2.9	J	23.9	J	48.6	J

All results in milligrams per kilogram (mg/kg)
U - Analyte not detected
J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 2
Inorganic Analytical Results-Soil Samples at Depth
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-S210C		RBS-S210D		RBS-S211A		RBS-S211B		RBS-S211C		RBS-S211D		RBS-S211E		RBS-S212A		RBS-S212B		RBS-S212C		RBS-S212D		RBS-S213A		RBS-S213B		RBS-S213C		RBS-S213D	
EPA Sample No.	MB5KE8		MB5KE9		MB5KF0		MB5KF1		MB5KF2		MB5KF3		MB5KF4		MB56S5		MB56S6		MB56S7		MB56S8		MB56S9		MB56T0		MB56T1		MB56T2	
Sample Depth	12-18 in.		18-24 in.		0-2 in.		6-12 in.		12-18 in.		18-24 in.		0-2 in.		0-2 in.		6-12 in.		12-18 in.		18-24 in.		0-2 in.		6-12 in.		12-18 in.		18-24 in.	
Comment													Dup. of RBS-S211A																	
ALUMINUM	990		650		945		1060		1260		816		1120		1200		1060		1240		1660		1030		720		1090		864	J
ANTIMONY	1	J	6.3	U	6.2	U	6.2	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.3	U	6.4	U	15.7		6.8	U	7.3	U	7.5	U
ARSENIC	5.6	J	2.8		5.3		10.1		4.5		6.9		4.1		4.8		5.7		4.6		25.7		13.9		6.2		8.2		4.7	
BARIUM	3.6	J	1.9	J	6.4	J	1.6	J	2.5	J	1.1	J	1.2	J	1.9	J	2.4	J	7.7	J	5	J	21.5		9	J	3.4	J	1.7	J
BERYLLIUM	0.33	J	0.52	U	0.52	U	0.81		0.52	U	0.53	UJ	0.52	U	0.53	U	0.53	U	0.52	U	0.8		0.53	U	0.57	U	0.61	U	0.59	U
CADMIUM	0.51	U	0.6		1.1		1.4		1.3		0.75		0.94		0.82		1		1.2		1.6		1.1		0.6		1.1		0.56	J
CALCIUM	392	J	524	U	6140	R	606		935		543		1140	R	1350		1920		664		2530		526	U	565	U	607	U	622	R
CHROMIUM	13.6		6.1	J	20.2	J	11	J	15.3	J	5.8	J	8.2	J	11.1	J	14.2	J	11.4	J	17	J	7.5	J	6.4	J	8.1	J	5.7	
COBALT	0.73	J	5.2	U	5.2	U	5	U	5.2	U	0.53	J	5	U	5	U	5.2	U	5.2	U	2	J	5	U	5.5	U	5.8	U	5.9	U
COPPER	5.7	J	14.7		4	J	14.9	J	5.2	J	4.1	J	4.7	J	5.1	J	5	J	17.8	J	8.1	J	18.7		8.7	J	5.3	J	2.5	J
IRON	18200		9940		15800		22900		20900		12600		15900		15400		17800		21000		28800		20000		11100		19300		13000	
LEAD	32.5		19.8	J	32.2	J	31	J	35.8	J	28.8	J	16.5	J	17	J	24.4	J	47.5	J	28.4	J	364	J	148	J	69.5	J	5.1	
MAGNESIUM	275	J	524	U	518	U	519	UJ	640		528	U	523	U	210	J	288	J	277	J	363	J	317	J	205	J	457	J	346	J
MANGANESE	41.5		27.4	J	40.1	J	25.8	J	21.1	J	24.3	J	32.5	J	33	J	38.6	J	28.8	J	47.8	J	59.9	J	18.5	J	17.5	J	9.3	
NICKEL	2.5	J	1.4	J	1.6	J	3.1	J	2	J	1.8	J	1.7	J	1.5	J	1.9	J	1.8	J	5		2.4	J	1.5	J	1.4	J	0.61	J
POTASSIUM	76.4	J	524	UJ	518	UJ	519	UJ	524	UJ	528	UJ	523	UJ	525	UJ	527	UJ	524	UJ	535	UJ	526	UJ	565	UJ	607	UJ	340	J
SELENIUM	3.6	U	0.78	J	1.5	J	1.9	J	1.9	J	1	J	1.2	J	1.2	J	1.4	J	1.7	J	2.3	J	1.6	J	0.95	J	1.8	J	1.3	J
SILVER	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.1	U	1.2	U	1.2	U
SODIUM	405	J	524	U	518	U	519	U	524	U	528	U	523	U	525	U	527	U	524	U	905		526	U	565	U	1170		1350	
THALLIUM	2.5	U	2.6	UJ	2.6	UJ	2.5	UJ	2.6	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.6	UJ	2.6	UJ	2.6	UJ	2.5	UJ	2.8	UJ	2.9	UJ	3	UJ
VANADIUM	21.8		13.3	J	27.3		24.9	J	21.7	J	18.3	J	18.6	J	20	J	24.6	J	26	J	45		26.7		17.4	J	23.5	J	21.5	
ZINC	32	J	19.3	J	26.5	J	35.3	J	26.9	J	17.2	J	22.9	J	21.6	J	37.8	J	26.6	J	32.6	J	32.8	J	15	J	15.1	J	5.3	J

All results in milligrams per kilogram (mg/kg)
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J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 3
Inorganic Analytical Results-Sediment Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-SED91		RBS-SED92		RBS-SED93		RBS-SED94		RBS-SED95		RBS-SED96		RBS-SED97		RBS-SED98		RBS-SED99		RBS-SED100		RBS-SED101		RBS-SED102		RBS-SED103		RBS-SED104		RBS-SED105	
EPA Sample No.	MB5JW6		MB5JW7		MB5JW8		MB5JW9		MB5JX0		MB5JX1		MB5JX2		MB5JX3		MB5JX4		MB5JX5		MB5JX6		MB5JX7		MB5JX8		MB5JX9		MB5JY0	
Sample Depth	0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.	
Comment	MS/MSD				Dup. of RBS-SED92																											
ALUMINUM	1420	J	1150		1280		1150		726		822	J	716	J	1440	J	1260		1390	J	888	J	1370	J	782	J	1600	J	934	J
ANTIMONY	7.4	U	6.8	UJ	7.1	UJ	7.3	UJ	7.8	UJ	7.2	U	7.2	U	7	J	7.2	UJ	6.9	U	6.8	U	6.9	U	7.5	U	6.8	U	6.6	U
ARSENIC	2		5.5	J	3.9	J	3.5	J	1.5	J	3.5		1.8		6.3		4.3	J	3.5		1.7		3.1		2.4		2.4		1.6	
BARIUM	10.4	J	2	J	3.7	J	2.2	J	2	J	2.3	J	1.4	J	1.9	J	9.9	J	2.3	J	1.5	J	2.7	J	3.6	J	2.1	J	1.5	J
BERYLLIUM	0.61	U	0.56	U	0.76		0.61	U	0.65	U	0.6	U	0.6	U	0.59	U	0.6	U	0.57	U	0.7	U	0.58	U	0.62	U	0.57	U	0.55	U
CADMIUM	0.16	J	0.75	J	0.54	J	0.31	J	0.13	J	0.41	J	0.17	J	0.96		0.45	J	0.61		0.15	J	0.6		0.26	J	0.23	J	0.16	J
CALCIUM	3510		564	U	592	U	611	U	654	U	604	R	1160	R	920	R	1720		4280		569	R	1970	R	623	R	1840	R	6770	J
CHROMIUM	5.4		17.3		15		10.3		3.4		8.5		4.7		17.4		31.2		8.2		4.8		13.5		5.8		7.9		4.1	
COBALT	6.1	U	5.4	U	0.48	J	0.55	J	6.5	U	6	U	5.9	U	5.9	U	6	U	5.4	U	5.7	U	0.97	J	6.1	U	5.5	U	5.2	U
COPPER	1.5	J	3.1	J	3.2	J	1.5	J	2.4	J	2.3	J	1.4	J	4.7		5.7	J	3.1		2	J	2.9		2	J	1.8	J	2	J
IRON	6930		21900		16700		11000		5200		10500		6240		20600		13900		13600		6900		13600		8500		8230		5550	
LEAD	3.1		3.5	R	9.3		4.2		6		3		2.3		12.5		2.2		7.1		5.5		3.5		1.5		1.7		1.1	
MAGNESIUM	848		435	J	325	J	593		363	J	604	U	600	U	586	U	1020		571	U	569	U	908		623	U	612		548	U
MANGANESE	35.7		108	R	9.7	R	23.1		12.6		37		35.8		36.3		546		47.2		24.2		241		10.6		33.5		31.9	
NICKEL	2.3	J	1.5	J	3.6	J	2.8	J	1.5	J	1.5	J	1.4	J	4.2	J	0.98	J	2	J	1.5	J	3.2	J	0.99	J	2.4	J	1.8	J
POTASSIUM	857	J	564	U	592	U	611	U	654	U	280	J	228	J	308	J	601	U	353	J	269	J	362	J	186	J	307	J	277	J
SELENIUM	0.48	J	1.6	J	1.1	J	0.84	J	4.5	U	0.72	J	0.5	J	1.7	J	0.53	J	0.96	J	0.59	J	1	J	0.71	J	0.55	J	3.7	U
SILVER	1.2	U	1.1	U	1.2	U	1.2	U	1.3	U	1.2	U	1.2	U	1.2	U	1.2	U	1.1	U	1.1	U	1.1	U	1.2	U	1.1	U	1	U
SODIUM	1330		553		1180		1380		1790		1320		818		938		940		931		768		1170		1310		1090		691	
THALLIUM	3.1	UJ	2.7	UJ	2.9	UJ	2.9	UJ	3.2	UJ	3	UJ	2.9	UJ	2.9	UJ	3	UJ	2.7	UJ	2.8	UJ	2.8	UJ	3	UJ	2.7	UJ	2.6	UJ
VANADIUM	10.8		21.3		24.8		10.6		9.3		15.4		8.4		29.3		24.7		15		12		18.2		14		14.9		6.7	
ZINC	10.9		17.5		21.8		16.4		12.3		9.3		9.3		31.3		8.7		19.1		7.9		11.7		5.6	J	8.7		6.7	

All results in milligrams per kilogram (mg/kg)
U - Analyte not detected
J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 3
Inorganic Analytical Results-Sediment Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-SED106		RBS-SED107		RBS-SED108		RBS-SED109		RBS-SED110		RBS-SED111		RBS-SED112		RBS-SED113		RBS-SED114		RBS-SED115		RBS-SED116		RBS-SED117		RBS-SED118		RBS-SED119		RBS-SED120	
EPA Sample No.	MB5JY1		MB5JY2		MB5JY3		MB5JY4		MB5JY5		MB5JY6		MB5JY7		MB5JY8		MB5JY9		MB5JZ0		MB5JZ1		MB5JZ2		MB5JZ3		MB5JZ4		MB5JZ5	
Sample Depth	0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.	
Comment											MS/MSD				Dup. of RBS-SED112															
ALUMINUM	1160	J	1030	J	1060	J	6320	J	1350	J	1180		1700	J	2010	J	1290	J	1090	J	1980		942		1560		1650		4430	
ANTIMONY	6.6	U	6.6	U	6.9	U	7.3	U	7.8	U	7.6	U	8.5	U	8.3	U	7.1	U	7.1	U	0.76	J	0.51	J	0.52	J	1.3	J	6.9	U
ARSENIC	1.3		1.4		2		15.4		3		4.7	J	3.7		6.3		5.4		2.8		3.7	J	3.6	J	3.5	J	5.2	J	5.1	
BARIUM	2.7	J	1.8	J	1.7	J	18.9	J	3.7	J	2.5	J	5.9	J	6.6	J	4.2	J	2.7	J	8.8	J	2.7	J	5.8	J	5	J	64.9	
BERYLLIUM	0.55	U	0.55	U	0.57	U	0.61	U	0.65	U	0.12	J	0.71	U	0.69	U	0.59	U	0.59	U	0.23	J	0.13	J	0.23	J	0.22	J	0.56	U
CADMIUM	0.089	J	0.54	U	0.26	J	1.6		0.42	J	0.66		0.33	J	0.73		0.93		0.35	J	0.68	U	0.66	U	0.63	U	0.67	U	3.1	
CALCIUM	1420	R	546	R	930	R	641	R	2290	R	631	U	1720	R	1500	R	589	R	594	R	1670		381	J	729		621	J	12500	
CHROMIUM	6.9		4.4		4.4		22.9		9.3		19.4	J	8.7		10.7		14.2		8.1		10.6		7.8		15.3		11.4		226	
COBALT	0.6	J	5.4	U	5.6	U	2.3	J	6.2	U	0.94	J	0.72	J	0.66	J	5.7	U	5.9	U	1.8	J	0.65	J	1.7	J	2.3	J	5.6	U
COPPER	2.2	J	1.3	J	1.7	J	10.8		3.8		5.2	J	6.3		6.7		3		3.8		8.1	J	2.9	J	6.3	J	7.1	J	31.3	
IRON	4530		3980		8150		29500		10300		10700		9960		15200		18100		8730		9100		11400		8830		21700		50000	
LEAD	3.7		2.6		1.7		11.3		8.8		11.6		18		19.3		13.7		9.5		31.2		9.2		11.6		34.6		15.5	J
MAGNESIUM	756		607		590		1650		661		557	J	942		1030		446	J	434	J	846		442	J	675		686		9920	
MANGANESE	31.2		26.1		51.8		44.3		26.3		45.7		68.5		84.5		31.5		32.4		64.1		25.2		20.8		86		3470	J
NICKEL	2.4	J	1.8	J	1.9	J	6.3		2.1	J	2.3	J	3	J	3.1	J	1.3	J	1.7	J	3.9	J	1	J	2.2	J	3.3	J	4.7	
POTASSIUM	553	J	576	J	411	J	2500	J	575	J	631	UJ	753	J	828	J	464	J	403	J	709		359	J	609	J	435	J	440	J
SELENIUM	0.42	J	3.8	U	0.64	J	2.6	J	0.72	J	0.97	J	0.98	J	1.3	J	1.5	J	0.58	J	4.7	U	4.6	U	4.4	U	4.7	U	1.9	J
SILVER	1.1	U	1.1	U	1.1	U	1.2	U	1.2	U	1.3	U	1.4	U	1.3	U	1.1	U	1.2	U	1.4	U	1.3	U	1.3	U	1.3	U	0.35	J
SODIUM	1270		1200		873		2450		1850		2220		2600		2810		1360		1400		2370		1430		2090		1900		1390	
THALLIUM	2.7	UJ	2.7	UJ	2.8	UJ	2.9	UJ	3.1	UJ	3.2	UJ	3.5	UJ	3.3	UJ	2.8	UJ	2.9	UJ	3.4	U	3.3	U	3.1	U	3.4	U	2.8	UJ
VANADIUM	6.6		5.7		7.5		57.9		16.9		17		17.9		26.1		32.7		15.8		20.7		17.1		27.6		34.1		92.7	
ZINC	8.9		7.3		7.8		28.2		16.8		15.5		24.4		28.4		12.1		15.8		24.5	J	9.6	J	13.5	J	29.3	J	32.9	J

All results in milligrams per kilogram (mg/kg)
U - Analyte not detected
J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 3
Inorganic Analytical Results-Sediment Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-SED121		RBS-SED122		RBS-SED123		RBS-SED124		RBS-SED125		RBS-SED126		RBS-SED127		RBS-SED128		RBS-SED129		RBS-SED130		RBS-SED131		RBS-SED132		RBS-SED133		RBS-SED134		RBS-SED135	
EPA Sample No.	MB5JZ6		MB5JZ7		MB5JZ8		MB5JZ9		MB5K00		MB5K01		MB5K02		MB5K03		MB5K04		MB5K05		MB5K06		MB5K07		MB5K08		MB5K09		MB5K10	
Sample Depth	0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.	
Comment																					MS/MSD				Dup. of RBS-SED132					
ALUMINUM	1130		1560		2120		1080		1020		1920		1450		1600		1290		3100		1170		1490		1210		1010		1140	
ANTIMONY	7.6	U	6.5	U	6.8	U	6.8	U	6.7	U	6.5	U	6.8	U	6.8	U	6.7	U	7	U	7.3	U	8.1	U	8.2	U	8.1	U	8.4	U
ARSENIC	7.5		12.8		11.2		3.8		3.9		6.3		6.8		13.2		3.8		8.1		6.6		2.9		2.5		2.2		2.7	
BARIUM	1.9	J	2.5	J	8.3	J	2	J	1.9	J	3	J	10.5	J	30.4		1.6	J	2.2	J	8.4	J	7.2	J	5.6	J	5.2	J	5.8	J
BERYLLIUM	0.29	J	0.36	J	0.85		0.2	J	0.33	J	0.45	J	0.64		0.53	J	0.38	J	1		0.34	J	0.67	U	0.69	U	0.67	U	0.7	U
CADMIUM	0.99		1.3		1.7		0.64		0.65		1.4		1.2		1.6		0.88		2.7		1.1		0.29	J	0.2	J	0.14	J	0.11	J
CALCIUM	637	U	6490		2980		2680		836		1700		1080		1640		4540		2300		921		761		956		882		701	U
CHROMIUM	14.4		7.7		21.5		15		11.3		19.7		17.1		25.4		28.5		37.6		14.8		8		7.2		5.6		6.2	
COBALT	6.1	U	5.2	U	5.6	U	5.6	U	5.3	U	5.1	U	3.5	J	0.72	J	5.4	U	5.6	U	6.1	U	6.5	U	6.9	U	6.4	U	7	U
COPPER	4.8		6.9		7.7		14		2.8		23.2		49.3		12.9		4.5		7.2		8.1		9.6		8		8.3		8.2	
IRON	19500		25200		32300		14400		15400		27200		23600		32900		18800		50900		21300		8230		7500		5210		5870	
LEAD	23.2	J	16.7	J	40.5	J	14.4	J	15	J	22.7	J	56.4	J	87.4	J	16.6	J	19.5	J	35.5	J	50.8	J	44	J	39.5	J	44.7	J
MAGNESIUM	409	J	461	J	498	J	357	J	295	J	484	J	396	J	461	J	311	J	625		481	J	568	J	499	J	493	J	409	J
MANGANESE	39.2	J	75.6	J	56.9	J	36.4	J	34.6	J	64.8	J	55.5	J	105	J	34.8	J	65.8	J	56.6	J	22.7	J	18.8	J	18.5	J	29.5	J
NICKEL	5.1	U	4.4	U	4.5	U	4.5	U	4.4	U	4.3	U	14.6		4.5	U	4.5	U	5	J	4.9	U	5.4	U	5.5	U	5.4	U	5.6	U
POTASSIUM	171	J	153	J	165	J	104	J	124	J	146	J	118	J	153	J	87	J	191	J	174	J	327	J	286	J	259	J	269	J
SELENIUM	1.7	J	2	J	2.6	J	1.1	J	1.4	J	2.1	J	1.9	J	2.5	J	1.6	J	3.9	J	1.8	J	0.77	J	0.55	J	4.5	U	0.48	J
SILVER	1.2	U	1	U	1.1	U	1.1	U	1.1	U	1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.2	U	1.3	U	1.4	U	1.3	U	1.4	U
SODIUM	1510		755		929		875		801		678		888		872		806		1160		1490		1310		1460		2020		1200	
THALLIUM	3	UJ	2.6	UJ	2.8	UJ	2.8	UJ	2.7	UJ	2.6	UJ	2.7	UJ	2.8	UJ	2.7	UJ	2.8	UJ	3.1	UJ	3.2	UJ	3.4	UJ	3.2	UJ	3.5	UJ
VANADIUM	30.1		22.1		34.2		20.3		16.2		22.9		38.3		39.2		18.8		66.5		26.8		14.2		12.4		10		11.7	
ZINC	26.9	J	36.1	J	37.6	J	24.2	J	21.5	J	41.3	J	245		122		29.7	J	52.7		39.8		38.2	J	32.4	J	25	J	27.9	J

All results in milligrams per kilogram (mg/kg)

U - Analyte not detected

J - Estimated concentration

UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met

R - Unusable value

MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 3
Inorganic Analytical Results-Sediment Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-SED136		RBS-SED137		RBS-SED138		RBS-SED139		RBS-SED140		RBS-SED141		RBS-SED142		RBS-SED143		RBS-SED144		RBS-SED145		RBS-SED146		RBS-SED147		RBS-SED148		RBS-SED149	
EPA Sample No.	MB5K11		MB5K12		MB5K13		MB5K14		MB5K15		MB5K16		MB5K17		MB5K18		MB5K19		MB5K20		MB5K21		MB5K22		MB5K23		MB5K24	
Sample Depth	0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.	
Comment																												
ALUMINUM	1700		1070		1340		1270		1450		696		1650		1710		1420		1790		690		1150		1500		2020	
ANTIMONY	7.7	U	8	U	8.3	U	7.9	U	7.9	U	7.5	U	7.1	U	7.4	UJ	47.1	J	13.5	J	7.6	UJ	9.3	J	10.9	J	6.9	UJ
ARSENIC	2.2		2.4		3.2		3		3.4		2.3		4.9		5.2		25.3		16.1		5.1		14		14.9		11.5	
BARIUM	3.5	J	5.7	J	6.2	J	7.4	J	5.2	J	3.2	J	8.4	J	3.6	J	63.2		64.3		2.9	J	13.2	J	42.7		7.3	J
BERYLLIUM	0.64	U	0.67	U	0.69	U	0.66	U	0.65	U	0.62	U	0.59	U	0.62	U	0.6		0.59	U	0.64	U	0.61	U	0.59	U	0.57	U
CADMIUM	0.15	J	0.11	J	0.16	J	0.3	J	0.52	J	0.18	J	0.56	J	0.9		0.86		0.78		0.35	J	0.85		1.1		1.4	
CALCIUM	2310		667	U	693	U	658	U	3120		623	U	5860		18900		1860		2690		6860		1140		1830		2850	
CHROMIUM	5.8		5.9		6.3		9		10.2		5.7		28.2		14.8		12.1		10.5		5.4		12.4		35.2		25.5	
COBALT	6.3	U	6.6	U	6.6	U	6.3	U	6.4	U	5.9	U	1.6	J	0.59	J	5.9	U	5.8	U	4.5	U	5.8	U	5.8	U	5.7	U
COPPER	5.5		7.2		7.9		10.8		12.2		6.5		25.5		12.4		26.1		13.9		7.9		11		15.2		13.8	
IRON	6000		5130		6400		7740		13300		5450		13000		20800		20500		22000		9270		23600		27700		36600	
LEAD	28.8	J	30.9	J	49.9	J	41.6	J	50.4		41.9		56.6		35		786		234		103		212		461		187	
MAGNESIUM	437	J	492	J	597	J	400	J	570	J	353	J	736	J	867	J	708	J	556	J	296	J	533	J	476	J	572	J
MANGANESE	21	J	27	J	40.5	J	15	J	23.1		15.1		30.7		43.7		84.6		108		27.1		55.3		68.6		57.9	
NICKEL	5.1	U	5.3	U	5.5	U	5.3	U	2.8	J	1.3	J	5.5		3	J	4.5	J	2.4	J	1.4	J	2.4	J	3	J	3	J
POTASSIUM	256	J	296	J	401	J	253	J	654	UJ	623	UJ	594	UJ	616	UJ	611	UJ	586	UJ	635	UJ	613	UJ	590	UJ	571	UJ
SELENIUM	0.64	J	4.6	U	0.57	J	0.63	J	1	J	0.49	J	1	J	1.5	J	1.6	J	1.4	J	0.59	J	1.6	J	1.8	J	2.5	J
SILVER	1.3	U	1.3	U	0.087	J	1.3	U	1.3	U	1.2	U	0.12	J	1.2	U	1.2	U	1.2	U	0.91	U	1.2	U	1.2	U	1.1	U
SODIUM	1840		2090		2310		1600		1940		1580		2040		1730		1300		1180		1060		1310		1400		1020	
THALLIUM	3.1	UJ	3.3	UJ	3.3	UJ	3.2	UJ	3.2	UJ	3	UJ	2.9	UJ	3	UJ	2.9	UJ	2.9	UJ	2.3	UJ	2.9	UJ	2.9	UJ	2.8	UJ
VANADIUM	11.6		9.9		12.3		14.1		16.3		9.6		19.5		32.5		23.4		33.5		13.4		26.7		27.7		42.4	
ZINC	21.9	J	20.1	J	29.4	J	41.9		34.5		19.1		99.7		44.9		60.4		49.2		17.7		33.7		87.1		46.9	

All results in milligrams per kilogram (mg/kg)
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J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
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Table 3
Inorganic Analytical Results-Sediment Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-SED150		RBS-SED151		RBS-SED152		RBS-SED153		RBS-SED154		RBS-SED155		RBS-SED156		RBS-SED157		RBS-SED158		RBS-SED159		RBS-SED160		RBS-SED161		RBS-SED162		RBS-SED163		RBS-SED164	
EPA Sample No.	MB5K25		MB5K26		MB5K27		MB5K28		MB5K29		MB5K30		MB5K31		MB5K32		MB5K33		MB5K34		MB5K35		MB5K36		MB5K37		MB5K38		MB5K39	
Sample Depth	0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.	
Comment			MS/MSD				Dup. of RBS-SED152																							
ALUMINUM	942		1200		1640		1590		1480		1660		2610		3520		3630		712		1090		2280		1640		792		1030	
ANTIMONY	23.7	J	8.1	UJ	8.7	UJ	8.8	UJ	8.3	UJ	7.5	UJ	11.6	J	10.1	UJ	37.7	J	7.2	U	7	U	7.2	U	7	U	6.8	U	6.6	U
ARSENIC	15.2		9.3		9.4		11.1		6.9		24.2		11.3		16.3		38		3.6	J	5.2	J	9.5	J	9.2	J	4.7	J	4.5	J
BARIUM	25		10.1	J	10.1	J	10.2	J	8	J	7.7	J	5.9	J	9.9	J	22.7	J	24	UJ	23.3	UJ	24.1	UJ	23.4	UJ	22.8	UJ	22	UJ
BERYLLIUM	0.58	U	0.67	U	0.72	U	0.74	U	0.69	U	0.62	U	0.62	U	0.84	U	0.9	U	0.6	U	0.58	U	0.6	U	0.59	U	0.57	U	0.55	U
CADMIUM	0.68		0.46	J	0.43	J	0.47	J	0.56	J	1.2		1.8		2.1		0.91		0.6	U	0.58	U	0.6	U	0.59	U	0.57	U	0.55	U
CALCIUM	763		2240		1520		2300		863		4860		4160		2060		1310		601	U	583	U	2180		586	U	691		549	U
CHROMIUM	6.8		10.5		10.7		13.6		8.9		20.4		37.3		77.8		18		5.3	J	14.7	J	30.3	J	18.2	J	15.8	J	12.2	J
COBALT	5.5	U	6.7	U	0.7	J	0.92	J	0.62	J	6.2	U	1.1	J	0.82	J	1.6	J	6	U	5.8	U	6	U	5.9	U	5.7	U	5.5	U
COPPER	12.2		13.3		17.3		19.8		14.4		8.4		13.1		32.8		48.3		1.1	J	10.5		7		6.5		12.1		2.8	
IRON	19400		11400		10000		10000		11500		27400		44200		54500		18400		9680	J	18900	J	45100	J	32900	J	13600	J	14700	J
LEAD	1090		184		176		187		207		44.9		216		224		838		3.5		8.4		6.7		14.1		3.4		3.7	
MAGNESIUM	454	J	732	J	943	J	1130	J	780	J	407	J	799	J	1290	J	1650	J	402	J	336	J	676		480	J	245	J	641	
MANGANESE	71.3		54.6		51.7		58.1		35.2		28.3		48.7		92.2		193		25.1	J	31.4	J	49.4	J	33.8	J	28.4	J	27.3	J
NICKEL	2.5	J	2.6	J	3.4	J	3.6	J	3.3	J	3.2	J	6.3		6.9		6.8	J	0.62	J	2.8	J	3.6	J	1.4	J	0.71	J	1.2	J
POTASSIUM	575	UJ	673	UJ	723	UJ	735	UJ	693	UJ	622	UJ	625	UJ	838	UJ	896	J	601	U	583	U	602	U	586	U	570	U	549	U
SELENIUM	1.5	J	0.92	J	0.95	J	1	J	0.88	J	2.1	J	3.4	J	4.4	J	1.9	J	0.43	J	0.53	J	0.49	J	0.44	J	0.47	J	0.38	J
SILVER	1.1	U	1.3	U	0.088	J	1.4	U	0.11	J	1.2	U	1.2	U	0.25	J	0.17	J	1.1	J	2.1	J	5	J	3.6	J	1.5	J	1.6	J
SODIUM	845		2190		2640		2970		2360		1080		1610		3920		4410		1340		1090		1170		731		610		665	
THALLIUM	2.7	UJ	3.4	UJ	3.5	UJ	3.6	UJ	3.3	UJ	3.1	UJ	3	UJ	4	UJ	4.4	UJ	3	U	2.9	U	3	U	2.9	U	2.9	U	2.7	U
VANADIUM	20.4		17.1		17.5		17.4		17.9		44.9		37.2		47.1		27.7		13.5	J	22.5	J	42.5	J	37.1	J	13.8	J	26.3	J
ZINC	37.1		50		61.1		75.9		51.9		62.5		90.9		108		73.1		13	J	82.4	J	49.4	J	33.2	J	23.6	J	18.3	J

All results in milligrams per kilogram (mg/kg)
U - Analyte not detected
J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 3
Inorganic Analytical Results-Sediment Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-SED165		RBS-SED166		RBS-SED167		RBS-SED168		RBS-S6ED169		RBS-SED170		RBS-SED171		RBS-SED172		RBS-SED173		RBS-SED174		RBS-SED175		RBS-SED176		RBS-SED177		RBS-SED178		RBS-SED179	
EPA Sample No.	MB5K40		MB5K41		MB5K42		MB5K43		MB5K44		MB5K45		MB5K46		MB5K47		MB5K48		MB5K49		MB5K50		MB5K51		MB5K52		MB5K53		MB5K54	
Sample Depth	0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.	
Comment													MS/MSD				Dup. of RBS-SED172													
ALUMINUM	2510		863		2400		1910		664		1920		1250		1300		1090		1040		1850		2040		1230	J	1010	J	917	J
ANTIMONY	6.3	U	7	U	6.4	U	6.4	U	7.1	U	6.7	U	7.2	U	6.4	U	6.4	U	6.4	U	7	U	6.3	U	6.6	UJ	6.3	UJ	6.5	UJ
ARSENIC	12	J	7.1	J	12.3	J	7.5	J	3.6	J	6.3	J	5.4	J	7.2	J	5.8	J	8.1	J	8.8	J	9.5	J	7	J	6.9	J	4.7	J
BARIUM	21.1	UJ	23.3	UJ	21.3	UJ	21.3	UJ	23.6	UJ	22.4	UJ	23.8	UJ	21.3	UJ	21.4	UJ	21.3	UJ	23.4	UJ	20.8	UJ	1.9	J	1.6	J	1.6	J
BERYLLIUM	0.53	U	0.58	U	0.57		0.53	U	0.59	U	0.56	U	0.6	U	0.53	U	0.53	U	0.53	U	0.58	U	0.57		0.31	J	0.12	J	0.074	J
CADMIUM	0.53	U	0.58	U	0.53	U	0.53	U	0.59	U	0.56	U	0.6	U	0.53	U	0.53	U	0.53	U	0.58	U	0.52	U	0.049	J	0.04	J	0.54	U
CALCIUM	528	U	583	U	533	U	1590		591	U	1070		965		281	J	1660	J	646		254	J	1620		616	J	572	J	244	J
CHROMIUM	37.6	J	8.9	J	20.9	J	14.7	J	7.5	J	11.5	J	22.7	J	13.3	J	13	J	9.6	J	20.2	J	34.7	J	12.8	J	9.9	J	4.9	J
COBALT	5.3	U	5.8	U	5.3	U	5.3	U	5.9	U	5.6	U	6	U	5.3	U	5.3	U	5.3	U	5.8	U	5.2	U	0.6	J	0.51	J	0.37	J
COPPER	8.4		1.9	J	4.1		27.1		2.9	J	8.6		6.3		2.6	J	2.8		18.6		2.8	J	20.9		8.7	R	8.7	R	2.1	R
IRON	52600	J	17200	J	46800	J	32000	J	14700	J	35200	J	19800	J	21800	J	18600	J	21000	J	38900	J	44400	J	23500	J	17700	J	7890	J
LEAD	7.8		5.2		6.3		9.1		3		6.2		4.5		5.6		17.2		16.3		7		9.1		5		10.6		12.5	
MAGNESIUM	521	J	266	J	438	J	700		264	J	372	J	371	J	231	J	222	J	239	J	398	J	417	J	322	J	218	J	158	J
MANGANESE	66.9	J	36	J	108	J	64.1	J	55	J	44.4	J	51.8	J	44.6	J	40.9	J	31.7	J	48.2	J	66.7	J	43.1	J	38.9	J	44.2	J
NICKEL	2.2	J	0.85	J	1.5	J	2.7	J	1	J	0.45	J	1.4	J	1.5	J	1.1	J	0.49	J	1.3	J	1.6	J	0.96	J	0.71	J	0.57	J
POTASSIUM	528	U	583	U	533	U	533	U	591	U	559	U	596	U	533	U	535	U	533	U	585	U	521	U	128	J	70	J	62	J
SELENIUM	0.57	J	0.48	J	0.55	J	0.55	J	0.43	J	0.56	J	0.48	J	3.7	U	3.7	U	0.42	J	0.53	J	0.63	J	3.8	U	3.7	U	3.8	U
SILVER	5.6	J	1.9	J	5.2	J	3.6	J	1.7	J	4.1	J	2.3	J	2.5	J	2.2	J	2.4	J	4.5	J	4.9	J	2.5	J	2	J	0.89	J
SODIUM	528	U	820		533	U	533	U	742		571		1060		533	U	535	U	533	U	585	U	521	U	608		528	U	538	U
THALLIUM	2.6	U	2.9	U	2.7	U	2.7	U	3	U	2.8	U	3	U	2.7	U	2.7	U	2.7	U	2.9	U	2.6	U	2.7	U	2.6	U	2.7	U
VANADIUM	51.4	J	18.9	J	47.1	J	29.5	J	15	J	60.9	J	21.8	J	20.4	J	23.3	J	20.5	J	39	J	44.5	J	27.5	J	20.1	J	13.3	J
ZINC	51.3	J	21.1	J	44.2	J	34.3	J	16.1	J	23.7	J	37.2	J	29.3	J	31.4	J	21.8	J	45.9	J	42.8	J	28.7	J	26.3	J	17.6	J

All results in milligrams per kilogram (mg/kg)
U - Analyte not detected
J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 3
Inorganic Analytical Results-Sediment Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-SED180		RBS-SED181		RBS-SED182		RBS-SED183		RBS-SED184		RBS-SED185		RBS-SED186		RBS-SED187		RBS-SED188		RBS-SED189		RBS-SED190		RBS-SED191		RBS-SED192	
EPA Sample No.	MB5K55		MB5K56		MB5K57		MB5K58		MB5K59		MB5K60		MB5K61		MB5K62		MB5K63		MB5K64		MB5K65		MB5K66		MB5K67	
Sample Depth	0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.	
Comment																							MS/MSD			
ALUMINUM	735	J	283	J	578	J	352	J	646	J	822	J	255	J	653	J	447	J	659	J	492	J	1720	J	2440	J
ANTIMONY	6.4	UJ	7.9	UJ	7.9	UJ	8.1	UJ	7.8	UJ	8.9	UJ	8.2	UJ	8.4	UJ	8.3	UJ	8.7	UJ	8.5	UJ	8	UJ	7.5	UJ
ARSENIC	3.5	J	1.3	J	1.6	J	1.3	J	2.1	J	2.3	J	0.95	J	2.1	J	1.3	J	1.6	J	1.3	J	11.6	J	14.4	J
BARIUM	2	J	1.6	J	2.8	J	1.8	J	3.8	J	6.5	J	2.4	J	4.9	J	3.3	J	3.7	J	4.9	J	3.8	J	5	J
BERYLLIUM	0.11	J	0.66	U	0.051	J	0.039	J	0.066	J	0.062	J	0.68	U	0.057	J	0.69	U	0.055	J	0.047	J	0.17	J	0.26	J
CADMIUM	0.016	J	0.66	U	0.024	J	0.67	U	0.036	J	0.048	J	0.68	U	0.032	J	0.022	J	0.033	J	0.02	J	0.084	J	0.089	J
CALCIUM	186	J	253	J	279	J	175	J	255	J	410	J	158	J	336	J	246	J	1720	J	344	J	1110	J	659	J
CHROMIUM	6.1	J	1.8	J	3.7	J	2.9	J	4.8	J	5	J	2	J	4	J	2.6	J	3.8	J	3.1	J	15.7	J	18.4	J
COBALT	0.62	J	0.22	J	0.42	J	0.21	J	0.46	J	0.67	J	0.16	J	0.5	J	0.33	J	0.51	J	0.33	J	1.1	J	1.2	J
COPPER	2.9	R	1.5	R	2.9	R	1.4	R	2.2	R	3.8	R	1.2	R	3.2	R	1.7	R	2.8	R	1.8	R	6.6	R	13.6	R
IRON	8570	J	2270	J	4160	J	2910	J	6990	J	4880	J	2050	J	3880	J	2660	J	3540	J	2810	J	31000	J	42900	J
LEAD	12.2		5.4		10.8		5.6		8.6		16.5		4		11.9		6.5		9.8		8.6		11		18.8	
MAGNESIUM	229	J	248	J	364	J	246	J	386	J	577	J	282	J	453	J	441	J	553	J	503	J	613	J	583	J
MANGANESE	77.1	J	20.2	J	20.4	J	11.2	J	22.5	J	53.6	J	15.9	J	43.1	J	15.7	J	26.1	J	31.3	J	120	J	58.7	J
NICKEL	0.95	J	0.29	J	0.62	J	0.36	J	0.67	J	0.99	J	0.22	J	0.77	J	0.57	J	0.8	J	0.56	J	1.8	J	2.1	J
POTASSIUM	87.9	J	78.5	J	153	J	83.4	J	161	J	263	J	77.8	J	204	J	146	J	215	J	193	J	302	J	325	J
SELENIUM	3.8	U	4.6	U	4.6	U	4.7	U	4.6	U	5.2	U	4.8	U	4.9	U	4.8	U	5.1	U	4.9	U	0.62	J	0.75	J
SILVER	0.98	J	1.3	U	1.3	U	1.3	U	0.81	J	1.5	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	3	J	4.4	J
SODIUM	536	U	1440		1690		1240		1870		2630		1820		2100		2610		2960		2900		2200		1590	
THALLIUM	2.7	U	3.3	U	3.3	U	3.4	U	3.3	U	3.7	U	3.4	U	3.5	U	3.4	U	3.6	U	3.5	U	3.3	U	3.1	U
VANADIUM	12.7	J	4.3	J	8.4	J	5.1	J	8	J	9.5	J	4	J	8.3	J	5.2	J	7.3	J	5.9	J	38.1	J	61.5	J
ZINC	21.8	J	9.3	J	16	J	10	J	18.8	J	22.2	J	6.5	J	17.6	J	11.3	J	17.9	J	13.2	J	37	J	58.1	J

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Table 3
Inorganic Analytical Results-Sediment Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-SED193		RBS-SED194		RBS-SED195		RBS-SED196		RBS-SED197		RBS-SED198		RBS-SED199		RBS-SED200		RBS-SED201		RBS-SED202		RBS-SED203		RBS-SED204		RBS-SED205		RBS-SED206	
EPA Sample No.	MB5K68		MB5K69		MB5K70		MB5K71		MB5K72		MB5K73		MB5K74		MB5K75		MB5K76		MB5K77		MB5K78		MB5K79		MB5K80		MB5K81	
Sample Depth	0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.		0-3 in.	
Comment	Dup. of RBS-SED192																											
ALUMINUM	3040	J	4250	J	1530		846	J	1320	J	3020	J	302	J	248		365		496		1070		341		442		1670	J
ANTIMONY	7.4	UJ	7.4	UJ	7.5	U	8.4	UJ	7.3	UJ	7.7	UJ	7.1	UJ	7.6	U	7.9	U	7.9	U	6.9	U	7.2	U	7.5	U	6.5	UJ
ARSENIC	19.1	J	16.4	J	13.5		2.8	J	6.3	J	7.8		1.3		0.33	J	0.83	J	1.5		4.2		0.99	J	0.9	J	6.5	
BARIUM	6.4	J	4.1	J	14.6	J	4.3	J	4.8	J	25.5	UJ	23.6	UJ	1.9	J	2.5	J	3.2	J	3.1	J	1.5	J	0.96	J	21.8	UJ
BERYLLIUM	0.33	J	0.74		0.63	U	0.064	J	0.12	J	0.58	J	0.034	J	0.64	U	0.66	U	0.66	U	0.58	U	0.6	U	0.62	U	0.2	J
CADMIUM	0.11	J	0.74		1.3		0.03	J	0.049	J	0.64	U	0.59	U	0.12	J	0.12	J	0.2	J	1.1		0.26	J	0.27	J	0.54	U
CALCIUM	1630	J	330	J	13800		1550	J	950	J	414	J	95.4	J	872		661	U	2040		3530		598	U	621	U	1150	
CHROMIUM	46.6	J	54.2	J	28.5	J	7	J	17.6	J	39.8	J	1.9	J	2.1	J	2.7	J	3.4	J	28.2	J	2.5	J	2.4	J	14	J
COBALT	1.1	J	2.1	J	8.2		0.54	J	0.86	J	6.4	U	5.9	U	6.1	U	6.4	U	6.3	U	5.5	U	5.8	U	5.9	U	5.4	U
COPPER	11.7	R	17.2	R	7.4	J	6.2	R	73.6	R	8.3		1.2	J	3.2	UJ	3.3	UJ	3.3	UJ	5.2	J	3	UJ	3.1	UJ	14.1	
IRON	52800	J	23700	J	20800		7390	J	14700	J	77000	J	3940	J	1540		2230		3020		18600		4830		5380		25200	J
LEAD	21.6		16.8		10.3	J	9.6		10.6		18.3	R	2.8	R	4.7	J	5.7	J	7.1	J	6.4	J	2.7	J	2.4	J	90	R
MAGNESIUM	586	J	606	J	627	U	468	J	552	J	729		223	J	635	U	661	U	660	U	577	U	598	U	621	U	381	J
MANGANESE	60.4	J	46.1	J	25.2	J	21.5	J	32.2	J	121	J	15.7	J	10.4	J	9.5	J	48.4	J	37.7	J	9.4	J	11.4	J	130	J
NICKEL	1.8	J	7.3		23.8		1.1	J	1.7	J	4.4	J	0.39	J	0.23	J	0.45	J	0.8	J	2.7	J	0.52	J	0.46	J	1.3	J
POTASSIUM	319	J	294	J	627	UJ	168	J	224	J	639	U	590	U	635	UJ	661	UJ	660	UJ	577	UJ	598	UJ	621	UJ	544	U
SELENIUM	0.39	J	4.3	U	1.8	J	4.9	U	4.2	U	0.67	J	4.1	U	4.2	U	4.5	U	4.4	U	1.4	J	0.33	J	0.34	J	0.38	J
SILVER	5.4	J	2.4	J	1.2	U	0.81	J	1.5	J	15.6	J	0.79	J	1.2	U	1.3	U	1.3	U	1.1	U	1.2	U	1.2	U	5.3	J
SODIUM	1510		1510		1710		2080		1600		1620		1230		1350		1350		1690		871		1070		1260		544	U
THALLIUM	3.1	U	3.1	U	3	UJ	3.5	U	3	U	3.2	U	3	U	3	UJ	3.2	UJ	3.1	UJ	2.7	UJ	2.9	UJ	3	UJ	2.7	U
VANADIUM	76.9	J	81.4	J	26	J	12.4	J	25	J	43	J	5.7	UJ	4.3	J	5.4	J	6.8	J	19.9	J	5.8	J	4.8	J	22.4	J
ZINC	58.2	J	89	J	109	J	21.3	J	31.4	J	51.2	J	7.2	J	7.6	UJ	8.4	J	16.1	J	38.8	J	9.6	J	8.5	J	41.3	J

All results in milligrams per kilogram (mg/kg)
U - Analyte not detected
J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 4
Inorganic Analytical Results-Surface Water Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-SW25		RBS-SW25D		RBS-SW26		RBS-SW26D		RBS-SW27		RBS-SW27D		RBS-SW28		RBS-SW28D		RBS-SW29		RBS-SW29D		RBS-SW30		RBS-SW30D		RBS-SW31		RBS-SW31D		RBS-SW32		RBS-SW32D		RBS-SW33	
EPA Sample No.	MB5K86		MB5K87		MB5K88		MB5K89		MB5K90		MB5K91		MB5K92		MB5K93		MB5K94		MB5K95		MB5K96		MB5K97		MB5K98		MB5K99		MB5KA0		MB5KA1		MB5KA2	
Comment	MS/MSD		MS/MSD		Activity-Based		Activity-Based		Dup. of RBS-SW26		Dup. of RBS-SW26D		Activity-Based		Activity-Based		Activity-Based		Activity-Based		Activity-Based		Activity-Based		Activity-Based		Activity-Based						Activity-Based	
ALUMINUM	846		200	U	6430		200	U	2170	J	200	U	5950		200	U	2450		200	U	1010		200	U	2110		200	U	790		66.6	J	4020	
ANTIMONY	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U	3.8	J	60	U	10.1	J	60	U	3.5	J	60	U	26.2	J
ARSENIC	3.8	J	10	U	13.1		10	U	10	U	10	U	11.1		10	U	10.6		10	U	5.9	J	10	U	10.9		10	U	6.2	J	10	U	27.9	
BARIUM	23.4	J	20	J	44.1	J	21.1	J	31.4	J	20.6	J	48.8	J	20.9	J	44.4	J	21.3	J	21.6	J	19.2	J	25.6	J	19.6	J	21.6	J	19.2	J	36.8	J
BERYLLIUM	5	U	5	U	1.2	J	5	U	1	J	5	U	1.8	J	5	U	1.1	J	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
CADMIUM	5	U	5	U	5	U	5	U	0.53	J	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
CALCIUM	217000		212000		205000		206000		206000		212000		251000		197000		205000		202000		209000		209000		209000		210000		209000		207000		211000	
CHROMIUM	2.1	J	10	U	22.4		10	U	9.5	J	10	U	24.9		10	U	11.2		10	U	3	J	10	U	7	J	10	U	2.2	J	10	U	19.5	
COBALT	50	U	50	U	6.4	J	50	U	5.3	J	50	U	10.9	J	50	U	8.8	J	50	U	1.4	J	50	U	2.2	J	50	U	1.4	J	50	U	4.4	J
COPPER	6.3	J	1.7	J	23.1	J	1.4	J	30.2		1.6	J	18.1	J	1.9	J	46.2		2.1	J	9.2	J	1.3	J	18.6	J	1.2	J	8	J	1.6	J	49.4	
IRON	1690	J	93.3	J	18300	J	153		7180	J	106		24300	J	146		8300	J	124		2860	J	154		6370	J	117		2060	J	205		14400	J
LEAD	10.2		10	U	109	J	10	U	140	J	10	U	106		10	U	209		10	U	74.6		10	U	157		10	U	67.9		3.8	J	519	
MAGNESIUM	642000		648000		610000		647000		617000		664000		605000		618000		605000		633000		628000		656000		631000		657000		628000		645000		628000	
MANGANESE	99.9		52.5	J	446	J	102	J	683	J	69.1	R	857		111	J	1630		63.2	J	68.4		17.6		130		32.9		63		23.6	J	221	
NICKEL	2.2	J	1.2	J	12.5	J	1.1	J	6.4	J	1.6	J	14.1	J	1.6	J	7.5	J	1.3	J	2.5	J	1.6	J	4.6	J	1.5	J	2.4	J	1.2	J	10.6	J
POTASSIUM	345000	J	340000	J	319000	J	332000	J	324000	J	345000	J	319000	J	317000	J	315000	J	323000	J	326000	J	340000	J	332000	J	339000	J	335000	J	335000	J	329000	J
SELENIUM	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U
SILVER	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
SODIUM	5160000		5160000		4890000		5180000		4940000		5240000		4870000		5000000		4810000		5050000		5040000		5180000		5050000		5260000		5020000		5140000		5040000	
THALLIUM	25	R	25	R	25	R	25	R	25	R	25	R	25	R	25	R	25	R	25	R	25	R	25	R	25	R	25	R	25	R	25	R	25	R
VANADIUM	3.8	J	0.74	J	49.3	J	1.7	J	30.2	J	0.89	J	79.8		1.1	J	38.6	J	0.88	J	5.5	J	0.62	J	11.6	J	0.74	J	4.6	J	0.82	J	27.6	J
ZINC	14.6	J	13.3	J	178		2.9	J	209		3.2	J	352		3.3	J	259		3.3	J	27.7	J	3	J	46.5	J	2.6	J	21.3	J	3.6	J	120	

All results in micrograms per liter (µg/L)
U - Analyte not detected
J - Estimated concentration
UJ - The analyte was not quantifiable at or above the Contract Required Quantitation Limit (CRQL), or QA/QC requirements were not met
R - Unusable value
Surface water sample numbers containing a 'D' (RBS-SW25D) indicates that the sample was analyzed for Dissolved Metals.
* - Results for potassium and sodium were reported for some samples but not for others.
MS/MSD- Matrix Spike/Matrix Spike Duplicate

Table 4
Inorganic Analytical Results-Surface Water Samples
April 20-23, 2009
Raritan Bay Slag

Field Sample No.	RBS-SW33D		RBS-SW34		RBS-SW34D		RBS-SW35		RBS-SW35D		RBS-SW36		RBS-SW36D		RBS-SW37		RBS-SW37D		RBS-SW38		RBS-SW38D		RBS-SW39		RBS-SW39D		RBS-SW40		RBS-SW40D		RBS-SW41		RBS-SW41D	
EPA Sample No.	MB5KA3		MB5KA4		MB5KA5		MB5KA6		MB5KA7		MB5KA8		MB5KA9		MB5KB0		MB5KB1		MB5KB2		MB5KB3		MB5KB4		MB5KB5		MB5KB6		MB5KB7		MB5KB8		MB5KB9	
Comment	Activity-Based						Activity-Based		Activity-Based		Activity-Based		Activity-Based		Activity-Based		Activity-Based		Activity-Based		Activity-Based						Activity-Based		Activity-Based		Activity-Based		Activity-Based	
ALUMINUM	200	U	1230		200	U	5760		129	J	1820		200	U	1110	J	200	U	304	J	200	U	244	J	200	U	964	J	200	U	882	J	33.5	J
ANTIMONY	60	U	8.1	J	60	U	10.6	J	60	U	8.4	J	3.9	J	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U	60	U
ARSENIC	10	U	8.7	J	10	U	20.4		10	U	13		10	U	5.3	J	10	U	3.2	J	5.4	J	1.9	J	2.2	J	6.2	J	2.4	J	7	J	3.3	J
BARIUM	19.4	J	20.4	J	17	J	36.8	J	18.1	J	24.8	J	16.8	J	200	U	200	U	200	U	200	U	200	U	200	U	200	U	200	U	200	U	200	U
BERYLLIUM	5	U	5	U	5	U	1.5	J	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	0.35	J	5	U	5	U
CADMIUM	5	U	5	U	5	U	1	J	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
CALCIUM	210000		215000		223000		216000		222000		224000		220000		230000	J	229000	J	233000	J	247000	J	211000	J	238000	J	230000	J	202000	J	206000	J	227000	J
CHROMIUM	10	U	3.9	J	10	U	17.5		10	U	7.1	J	10	U	10	UJ	10	U	10	U	10	U	10	UJ	10	U	10	U	10	UJ	19.8	J	10	U
COBALT	50	U	1.4	J	50	U	4.1	J	50	U	2.5	J	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
COPPER	1.3	J	14.4	J	25	U	45.5		6.3	J	25	J	25	U	8.6	J	25	U	7.6	J	0.74	J	6.8	J	0.91	J	11.6	J	2	J	4.8	J	1.2	J
IRON	104		3610	J	96.4	J	19300	J	224		8580	J	164		3410	J	11.4	J	1160	J	14.6	J	1020	J	100	UJ	3410	J	100	UJ	6410	J	240	J
LEAD	10	U	164		10	U	767		10	U	480		10	U	37	J	10	U	15		10	U	5.8	J	10	U	25.6		10	U	28.4		10	U
MAGNESIUM	656000		650000		696000		649000		698000		674000		693000		670000	J	695000	J	697000	J	597000	J	638000	J	660000	J	694000	J	615000	J	613000	J	696000	J
MANGANESE	27.3	J	76.8		15	U	144		13	J	129		6.2	J	163	J	36.5	J	152	J	80	J	128	J	39.6	J	208	J	49.6	J	158	J	108	J
NICKEL	1.3	J	3.7	J	1.7	J	10.7	J	1.3	J	5.5	J	1.5	J	2.2	J	40	U	1.5	J	1.5	J	1.9	J	40	U	2.7	J	40	U	5.8	J	40	U
POTASSIUM	344000	J	345000	J	362000	J	342000	J	367000	J	358000	J	361000	J	*		*		*		*		*		*		*		*		*		*	
SELENIUM	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U	35	U
SILVER	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
SODIUM	5280000		5280000		5520000		5260000		5680000		5310000		5650000		*		*		*		*		*		*		*		*		*		*	
THALLIUM	25	R	25	R	25	R	25	R	25	R	25	R	25	R	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U
VANADIUM	0.93	J	6.6	J	50	U	47.3	J	2.5	J	21.1	J	1.2	J	50	UJ	50	UJ	50	UJ	50	UJ	50	UJ	50	UJ	50	U	50	U	50	UJ	50	U
ZINC	3.1	J	32.3	J	3.6	J	278		3.1	J	111		2.2	J	30.8	J	2.3	J	27	J	2.4	J	20.3	J	2	J	51.4	J	8.3	J	60.9		5.6	J

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